

DENON

AV SURROUND RECEIVER

AVR-390

Owner's Manual

Bedienungsanleitung

Manuel de l'Utilisateur

Manual del usuario

Инструкция по эксплуатации

Instrukcja Obsługi

Kullanım Kılavuzu

SAFETY PRECAUTIONS



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

For EU countries

• DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 2006/95/EC and 2004/108/EC Directive.

• ÜBEREINSTIMMUNGSERKLÄRUNG

Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht: EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3. Entspricht den Verordnungen der Direktive 2006/95/EC und 2004/108/EC.

• DECLARATION DE CONFORMITE

Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants: EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3. D'après les dispositions de la Directive 2006/95/EC et 2004/108/EC.

• DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares: EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3. Siguiendo las provisiones de las Directivas 2006/95/EC y 2004/108/EC.

• СЕРТИФИКАТ СООТВЕТСТВИЯ

Мы гарантируем, что данный продукт, к которому прилагается данный сертификат, соответствует требованиям следующих стандартов: EN60065, EN55013, EN55020, EN61000-3-2 и EN61000-3-3. Согласно условиям директив 2006/95/EC и 2004/108/EC.

• DEKLARACJA ZGODNOŚCI

Deklarujemy z pełną odpowiedzialnością, że produkt, którego dotyczy niniejsza deklaracja, jest zgodny z następującymi normami: EN60065, EN55013, EN55020, EN61000-3-2 oraz EN61000-3-3. Zgodność z zaleceniami dyrektywy 2006/95/EC oraz 2004/108/EC.

• UYGUNLUK BEYANI

Sorumluluğu tamamen kendimize ait olarak; işbu beyan konusu ürünün aşağıdaki standartlara uygun olduğunu beyan ederiz: EN60065, EN55013, EN55020, EN61000-3-2 ve EN61000-3-3. 2006/95/EC ve 2004/108/EC sayılı Yönerge hükümlerini takiben.

DENON EUROPE
Division of D&M Germany GmbH
An der Landwehr 19, Nettetal,
D-41334 Germany

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

VORSICHT:

Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose.

Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale.

La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

ОСТОРОЖНО:

Для того чтобы полностью отключить данный продукт от сети, выньте штепсельную вилку кабеля питания из розетки.

При установке данного продукта убедитесь в том, что используемая розетка находится в зоне досягаемости.

UWAGA:

W celu całkowitego odłączenia tego urządzenia od zasilania, należy wyjąć wtyczkę z gniazda elektrycznego.

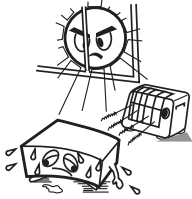
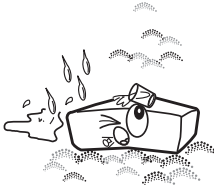
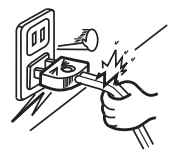
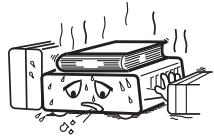
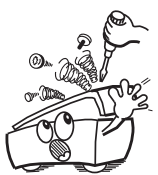
Przewód zasilający umożliwia całkowite odłączenie dopływu zasilania do urządzenia i musi być łatwo dostępny dla użytkownika.

DİKKAT:

Ürünün elektrikle bağlantısını tamamen kesmek için fişi, duvardaki prizden çekiniz.

Elektrik prizi, cihaza gelen elektriği bütünüyle kesmek için kullanılmakta olup kullanıcının kolayca erişebileceği bir yerde olmalıdır.

NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTAS SOBRE EL USO /
ЗАМЕЧАНИЯ ПО ЭКСПЛУАТАЦИИ / WSKAZÓWKI DOTYCZĄCE OBSŁUGI / KULLANIM NOTLARI

 • Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. • Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. • Éviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. • Избегайте высоких температур. Учитывайте значительное распределение тепла при установке устройства на полку. • Unikaj wysokich temperatur. Jeśli urządzenie jest ustawione w szafce, należy zapewnić odpowiednią cyrkulację powietrza. • Yüksek sıcaklıklardan kaçınınız. Bir raf içinde kurulursa yeterli ısı dağılımı olmasına dikkat ediniz.	 • Keep the unit free from moisture, water, and dust. • Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Mantenga el equipo libre de humedad, agua y polvo. • Не подвергайте устройство воздействию влаги, воды и пыли. • Chroń urządzenie przed wilgocią, wodą i pyłem. • Üniteyi nem, su ve tozdan uzak tutunuz.	 • Do not let foreign objects into the unit. • Lassen Sie keine fremden Gegenstände in das Gerät kommen. • Ne pas laisser des objets étrangers dans l'appareil. • No deje objetos extraños dentro del equipo. • Следите, чтобы посторонние предметы не попадали внутрь устройства. • Zwróć uwagę, aby do środka urządzenia nie dostały się żadne obce przedmioty. • Üniteye yabancı cisim girmesine izin vermeyiniz.	CAUTION: • The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. • No naked flame sources, such as lighted candles, should be placed on the unit. • Observe and follow local regulations regarding battery disposal. • Do not expose the unit to dripping or splashing fluids. • Do not place objects filled with liquids, such as vases, on the unit. ACHTUNG: • Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden. • Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. • Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen. • Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden. • Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden.
 • Handle the power cord carefully. Hold the plug when unplugging the cord. • Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. • Будьте осторожны при включении/отключении кабеля питания. При включении/отключении кабеля питания беритесь за вилку. • Obchodź się ostrożnie z przewodem zasilającym. Odłączając przewód z gniazda elektrycznego, trzymaj zawsze za wtyczkę. • Güç kablounu dikkatli kullanınız. Kabloyu fişten çekerken prizden tutunuz.	 • Unplug the power cord when not using the unit for long periods of time. • Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. • Если устройство не будет использоваться в течение длительного времени, отключите кабель питания от сети. • Odłącz przewód zasilający z sieci, jeśli urządzenie nie jest używane przez dłuższy czas. • Ünite uzun süre kullanılmayacaksa ünitenin kablounu prizden çekiniz.	 • Do not let insecticides, benzene, and thinner come in contact with the unit. • Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. • Предохраняйте устройство от воздействия ядохимикатов, бензина и растворителей. • Chroń urządzenie przed kontaktem z środkami owadobójczymi, benzyną oraz rozpuszczalnikiem. • Böcek ilacı, benzen ve tiner gibi maddeleri üniteyle temas ettirmeyiniz.	ATTENTION: • La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc. • Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil. • Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. • L'appareil ne doit pas être exposé à l'eau ou à l'humidité. • Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil. PRECAUCIÓN: • La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles, cortinas, etc. • No debe colocarse sobre el aparato ninguna fuente inflamable sin protección, como velas encendidas. • A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. • No exponer el aparato al goteo o salpicaduras cuando se utilice. • No colocar sobre el aparato objetos llenos de líquido, como jarros. ОСТОРОЖНО: • Не закрывайте вентиляционные отверстия такими предметами, как газеты, скатерти, шторы и др. • Не размещайте на поверхности аппарата источники открытого огня, например свечи. • Обратите внимание на экологические аспекты утилизации батарей питания. • Следите, чтобы на устройство не проливалась вода. • Не располагайте емкости, в которых содержится вода, на устройстве.
	 * (For apparatuses with ventilation holes) • Do not obstruct the ventilation holes. • Decken Sie den Lüftungsbereich nicht ab. • Ne pas obstruer les trous d'aération. • No obstruya los orificios de ventilación. • Не закрывайте вентиляционные отверстия. • Nie zakrywaj otworów wentylacyjnych. • Havalandırma deliklerini kapatmayınız.	 • Never disassemble or modify the unit in any way. • Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Nunca desarme o modifique el equipo de ninguna manera. • Никогда не разбирайте и не модифицируйте устройство. • Nie rozbieraj urządzenia oraz nie dokonuj w nim żadnych modyfikacji. • Üniteyi asla hiçbir şekilde sökmeyiniz ve üzerinde değişiklik yapmayınız.	UWAGA: • Nie należy ograniczać wentylacji urządzenia, np. poprzez zakrycie otworów wentylacyjnych gazetami, obrusem, zasłonami itp. • Na urządzeniu nie wolno stawiać żadnych źródeł otwartego ognia, np. zapalonych świec. • Przestrzegaj lokalnych przepisów dotyczących utylizacji baterii. • Chroń urządzenie przez zachlapaniem lub kapieniem wszelkich cieczy. • Nie stawiaj na urządzeniu żadnych przedmiotów napełnionych wodą, np. wazonów. DİKKAT: • Havalandırma gazete, masa örtüsü, perde ve benzeri cisimlerle kapatılarak engellenmemelidir. • Yanan mum gibi açık alev kaynağı cisimleri üniteye yaklaştırmayınız. • Pillerin atılması ile ilgili yerel yasa ve düzenlemelere riayet ediniz. • Üniteyi, üzerine sıvı damlama veya sığrama ihtimali olan yerlerde bulundurmayınız. • Vazo gibi siviyla dolu cisimleri ünitenin üzerine koymayınız.

A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.

HINWEIS ZUM RECYCLING:

Das Verpackungsmaterial dieses Produktes ist zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften.

Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen.

Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften.

Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive.

UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur.

Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en vigueur.

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles.

Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE.

ACERCA DEL RECICLAJE:

Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad.

Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales.

Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos.

Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas.

ПРИМЕЧАНИЕ О ПЕРЕРАБОТКЕ:

Упаковочный материал данного продукта может быть переработан и повторно использован. Пожалуйста, сортируйте материалы в соответствии с местными требованиями переработки.

При утилизации определенных блоков соблюдайте местные правила утилизации.

Не выбрасывайте и не сжигайте батарейки, соблюдайте местные правила утилизации химических отходов.

Данный продукт и аксессуары в упаковке соответствуют директиве WEEE, исключая батарейки.

INFORMACJE DOTYCZĄCE RECYKLINGU:

Opakowanie urządzenia zostało wykonane z materiałów nadających się do wtórnego przetworzenia. Utylizację wszelkich materiałów należy przeprowadzić zgodnie z obowiązującymi lokalnymi przepisami dotyczącymi recyklingu.

Urządzenie należy zutylizować zgodnie z lokalnymi przepisami.

Baterii nie wolno wyrzucać do śmieci lub palić. Należy je zutylizować zgodnie z obowiązującymi zasadami dotyczącymi utylizacji baterii.

Niniejszy produkt oraz dostarczone wraz z nim akcesoria (oprócz baterii) stanowią właściwy produkt, zgodnie z dyrektywą WEEE.

GERİ DÖNÜŞÜME İLİŞKİN NOT:

Bu ürünün ambalajı geri dönüştürülebilir ve yeniden kullanılabilir niteliktedir. Materyalleri lütfen yerel geri dönüşüm yasa ve düzenlemelerine uygun biçimde atınız.

Üniteyi hurdaya çıkartırken mahalli yasa ve düzenlemelere riayet ediniz.

Piller asla rastgele atılmamalı ve yakılmamalı, bunun yerine pil atıklarına ilişkin mahalli yasa ve düzenlemelere uygun biçimde imha edilmelidir.

Bu ürün ve beraberinde gelen aksesuarları, pilleri hariç olmak kaydıyla, WEEE yönergesi uyarınca kapsam içi ürün niteliğindedir.



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Getting Started

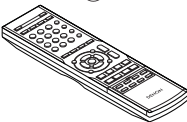
Thank you for purchasing this DENON product. To ensure proper operation, please read this owner’s manual carefully before using the product.
After reading them, be sure to keep them for future reference.

Accessories

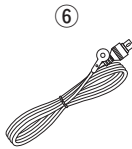
Check that the following parts are supplied with the product.

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④



⑥



⑦

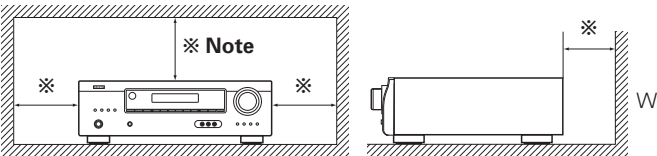


Cautions on Handling

- **Before turning the power switch on**
Check once again that all connections are correct and that there are no problems with the connection cables.
- Power is supplied to some of the circuitry even when the unit is set to the standby mode. When traveling or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.
- **About condensation**
If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.
If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.
- **Cautions on using mobile phones**
Using a mobile phone near this unit may result in noise. If so, move the mobile phone away from this unit when it is in use.
- **Moving the unit**
Turn off the power and unplug the power cord from the power outlet.
Next, disconnect the connection cables to other system units before moving the unit.
- Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.

Cautions on Installation

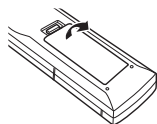
Note:
For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.



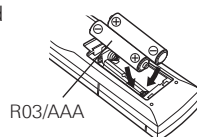
About the Remote Control Unit

Inserting the Batteries

- ① Lift the clasp and remove the rear cover.



- ② Load the two batteries properly as indicated by the marks in the battery compartment.



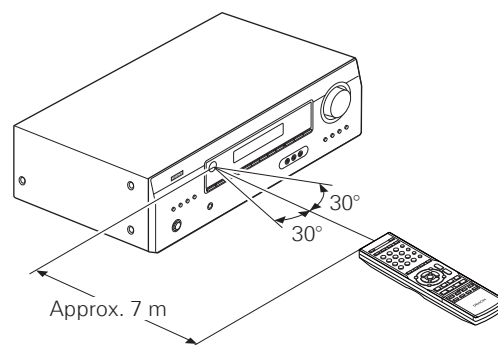
- ③ Put the rear cover back on.

NOTE

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit.
- The supplied batteries are only for verifying operation.
- When inserting the batteries, be sure to do so in the proper direction, following the “+” and “-” marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
 - Do not use a new battery together with an old one.
 - Do not use two different types of batteries.
 - Do not attempt to charge dry batteries.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

Operating Range of the Remote Control Unit

Point the remote control unit at the remote sensor when operating it.



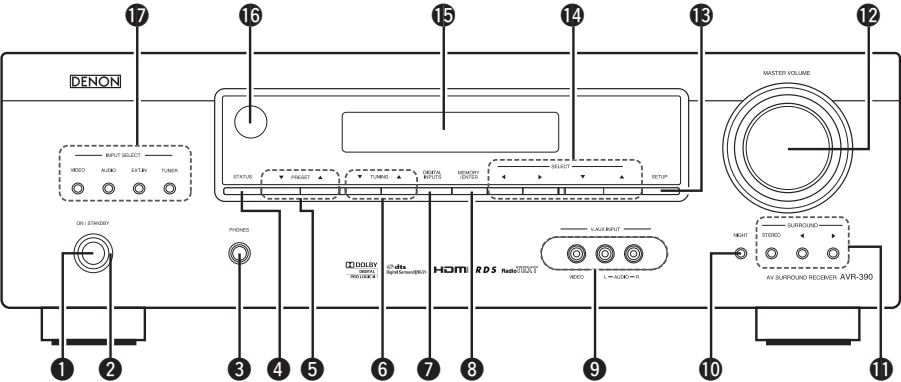
NOTE

The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.

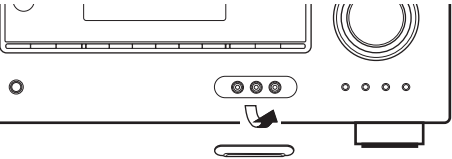
Part Names and Functions

For buttons not explained here, see the page indicated in parentheses ().

Front Panel

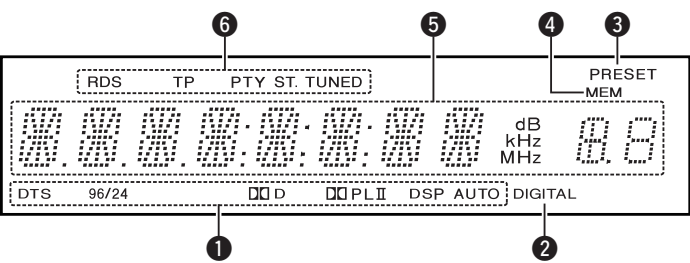


- 1 Power operation button (ON/STANDBY)..... (22)
- 2 Power indicator..... (22)
- 3 Headphone jack (PHONES)..... (23)
- 4 STATUS button..... (21, 23)
- 5 PRESET buttons (▲▼)..... (24)
- 6 TUNING buttons (▲▼)..... (23)
- 7 DIGITAL INPUTS button..... (22)
- 8 MEMORY / ENTER button..... (15, 18, 24)
- 9 V. AUX INPUT connectors..... (22)
- 10 NIGHT button..... (21)
- 11 SURROUND buttons..... (19)
- 12 MASTER VOLUME control knob..... (23)
- 13 SETUP button..... (15)
- 14 SELECT buttons (Δ▽◀▶)..... (15)
- 15 Display..... (4)
- 16 Remote control sensor..... (3)
- 17 INPUT SELECT buttons..... (22)



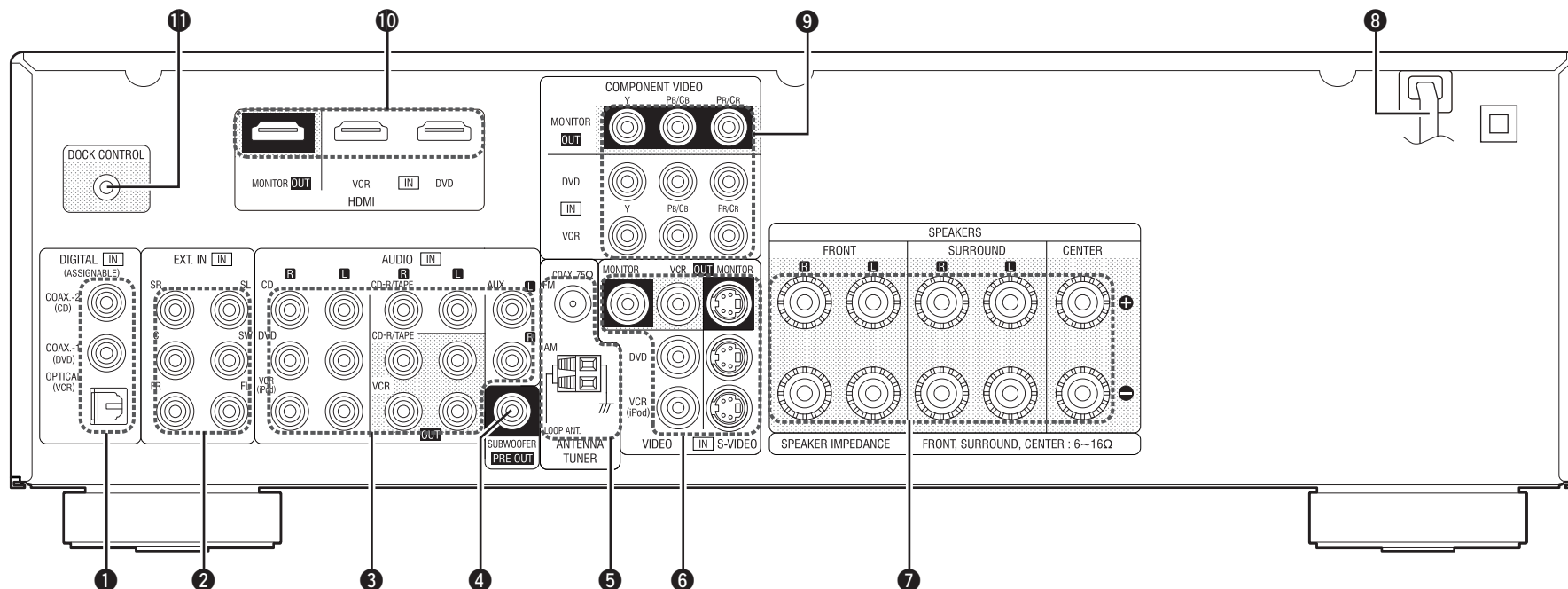
Fit the cap when not using the V.AUX INPUT connectors. Fitting the cap keeps out dust, etc.

Display



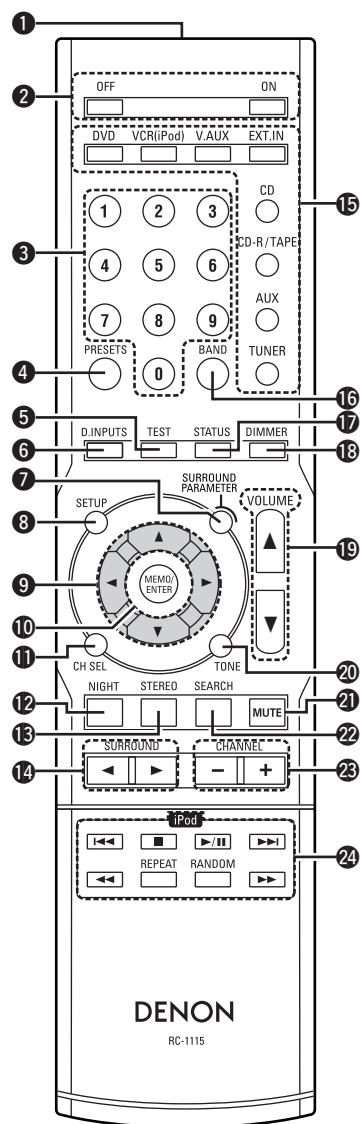
- 1 Decoder indicators
These light when the respective decoders are operating.
- 2 DIGITAL input indicator
This lights when set to digital input (page 22).
- 3 PRESET indicator
This lights when the input source is "TUNER".
- 4 MEMORY indicator
This lights when registering preset numbers (page 23).
- 5 Information display
- 6 Tuner reception mode indicators
These light according to the reception conditions when the input source is set to "TUNER".
 - RDS
This lights when receiving RDS broadcasts.
 - TP
This lights when receiving TP broadcasts.
 - PTY
This flashes during PTY search.
 - ST.
In the FM mode, this lights when receiving stereo broadcasts.
 - TUNED
This lights when the broadcast is properly tuned in.

Rear Panel



- ① Digital audio connectors (OPTICAL / COAXIAL) (10 ~ 13)
- ② EXT. IN connectors (14)
- ③ Analog audio connectors (AUDIO) (10 ~ 13)
- ④ PRE OUT connector (8)
- ⑤ FM/AM antenna terminals (TUNER ANTENNA) (14)
- ⑥ VIDEO / S-VIDEO connectors (11 ~ 13)
- ⑦ Speaker terminals (SPEAKERS) (8)
- ⑧ Power cord (14)
- ⑨ COMPONENT VIDEO connectors (11 ~ 13)
- ⑩ HDMI connectors (10 ~ 13)
- ⑪ DOCK CONTROL jack (12)

Remote Control Unit (RC-1115)



- 1 Remote control signal transmitter (3)
- 2 Power buttons (22)
- 3 Number buttons (24)
- 4 PRESETS button (24)
- 5 Test Tone button (TEST) (28)
- 6 Digital Input button (D. INPUTS) (22)
- 7 SURROUND PARAMETER button (21)
- 8 SETUP button (15)
- 9 Select buttons (Δ ▽ ◀ ▶) (15)
- 10 Memory (MEMO) / ENTER button (15, 18, 24)
- 11 Channel select button (CH SEL) (18)
- 12 NIGHT button (21)
- 13 STEREO button (19)
- 14 SURROUND buttons (◀ ▶) (19)
- 15 Input select buttons (22)
- 16 BAND button (23)
- 17 STATUS button (21, 23)
- 18 DIMMER button (23)
- 19 Master volume control buttons (23)
- 20 TONE button (20)
- 21 MUTE button (23)
- 22 SEARCH button (25, 26)
- 23 CHANNEL (+ -) buttons (24)
- 24 System button for iPod use (27)

Connections

Connections for all compatible audio and video signal formats are described in this owner's manual. Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the AVR-390. For details, refer to the instructions for the respective connection items below.

NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

Preparations

Cables Used for Connections

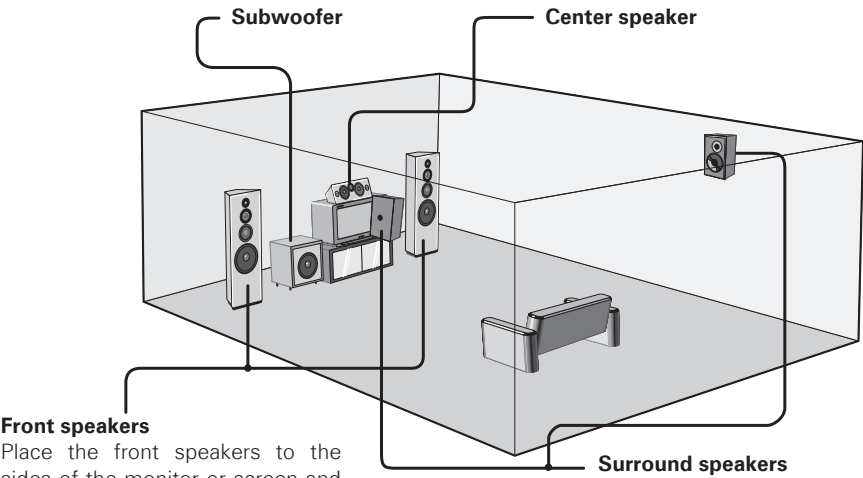
Select the cables according to the equipment being connected.

Audio cables	Video cables
Coaxial digital connections (Orange)    Coaxial digital (75 Ω/ohms pin-plug) cable Optical digital connections    Optical cable Analog connections (stereo) (White)    (Red)    Stereo pin-plug cable Analog connections (monaural, for subwoofer) (Black)    Pin-plug cable Speaker connections       Speaker cables	Component video connections (Green)    (Blue)    (Red)    Component video cable S-Video connections    S-Video cable Video connections (Yellow)    75 Ω/ohms pin-plug video cable Audio and video cables HDMI connections    19-pin HDMI cable Signal direction Audio signal: Output  Input Input  Output Video signal: Output  Input Input  Output

Speaker Connections

Speaker Installation

The illustration below shows a basic example of installation of the AVR-390 combined with 6 speakers and a monitor.



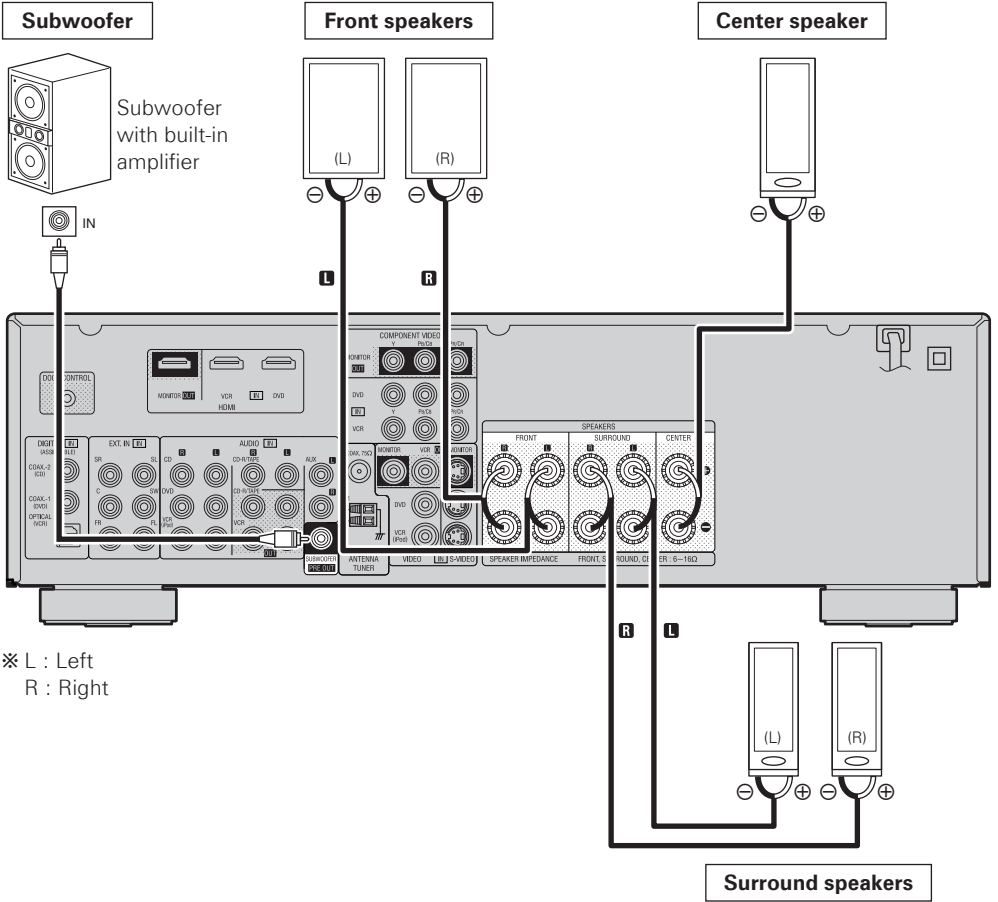
Front speakers
Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible.



The table below shows a typical speaker configuration for the AVR-390.

	FRONT		CENTER	SURROUND		SUBWOOFER
	L	R		L	R	
5.1-channels	○	○	○	○	○	○
3.1-channels	○	○	○	—	—	○
2.1-channels	○	○	—	—	—	○
2-channels	○	○	—	—	—	—

Speaker Connections

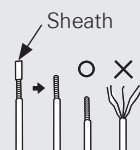


※ L : Left
R : Right

Connecting the Speaker Cables

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the AVR-390, and be sure to interconnect the channels and polarities correctly.

1 Peel off the sheath from the tip of the speaker cable, then firmly twist the wires by hand so that they do not stick out and cause short-circuits.



2 Turn the speaker terminal counterclockwise to loosen it.



3 Insert the speaker cable's core wire to the hilt into the speaker terminal.



4 Turn the speaker terminal clockwise to tighten it.



NOTE

- Use speakers with an impedance of 6 to 16 Ω /ohms.
- Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other (☞ "Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Protection circuit

If the core wires touch the rear panel and the screws etc., or the $\pm$ sides touch each other, the protection circuit will be activated and the power indicator will flash red at intervals of 0.5 secs.

If the protection circuit is activated, the speaker output is isolated, and the power supply goes to the standby state. If the power supply is turned off, after the power cord is withdrawn, please confirm that speaker cable and input cable are connected.

Also, if replaying large sound levels by using a speaker having an impedance less than that specified (eg, 4 Ω /ohms), the temperature will rise, and the protection circuit might be activated. The power supply will go into the standby state, and the power indicator will flash red at 2 second intervals.

In this case, please switch off the power supply, and wait until the AVR-390 has cooled down, and the surrounding ventilation is good.

Even if there are no problems with the surrounding ventilation and connections, in the event of the protection circuit becoming activated, due to thinking that the AVR-390 has failed, please contact DENON Service center after switching off.

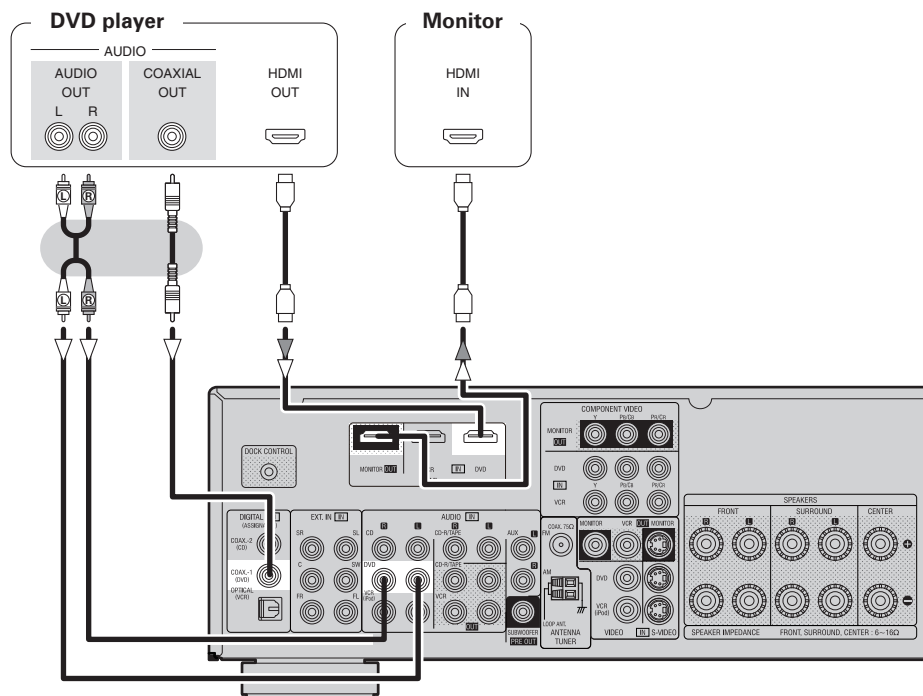
Connecting Equipment with HDMI Connectors



When HDMI input signals are sent to the monitor as HDMI output, both video and audio are output to the monitor.

NOTE

The audio signal input to the HDMI input connector cannot be played on the AVR-390. Input the audio signal to the digital audio input connector or analog audio input connector.



- ※ The AVR-390 is equipped for HDMI version 1.3a. This version is compatible with other versions, allowing connection to all components equipped with an HDMI connector.
- ※ The AVR-390 is compatible with 30- and 36-bit Deep Color.
- ※ The AVR-390 can be connected to a device equipped with an HDMI output connector using an HDMI cable.
- ※ The AVR-390 is compatible with HDMI Ver. 1.3a Deep Color and xvYCC.

NOTE

- The AVR-390 cannot be controlled from another device via the HDMI cable.
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the DVD player's resolution to a resolution with which the monitor is compatible.
- Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).
- If the monitor or DVD player does not support Deep Color, deep color signal transfer is not possible.
- If the monitor or DVD player does not support xvYCC, xvYCC signal transfer is not possible.



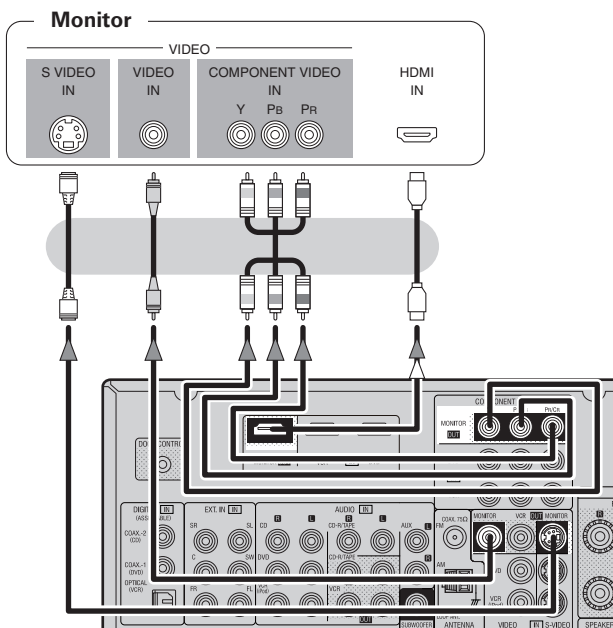
- The audio and video signals input to the AVR-390's HDMI input connector are output unchanged from the HDMI output connector. Because of this, the sound is output from the monitor connected using the HDMI connectors, but in order to take full advantage of the AVR-390's playback sound, turn the TV's volume down.
- If the connected monitor or DVD player only has a DVI-D connector, use an HDMI/DVI converter cable.
When using a DVI cable, no audio signals are transmitted.
- Use a Deep Color compatible cable for connection to Deep Color compatible devices.

When connecting with an HDMI/DVI converter cable (adapter)

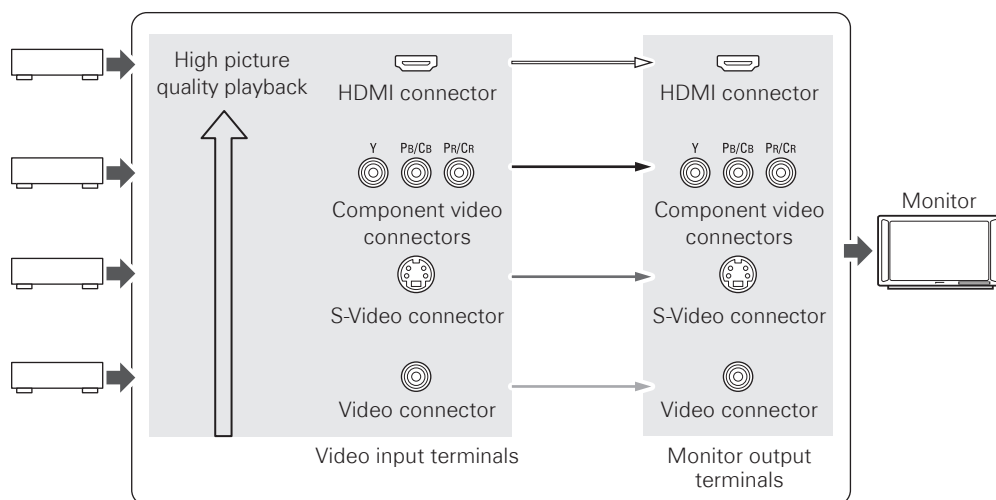
- HDMI video signals are theoretically compatible with the DVI format.
When connecting to a monitor, etc., equipped with a DVI-D connector, connection is possible using an HDMI/DVI converter cable, but depending on the combination of components in some cases the video signals will not be output.
- When connecting using an HDMI/DVI converter adapter, the video signals may not be output properly due to poor connections with the connected cable, etc.

Connecting the Monitor

Select the terminal to use and connect the device.



[Flow of video signals inside the AVR-390]



NOTE

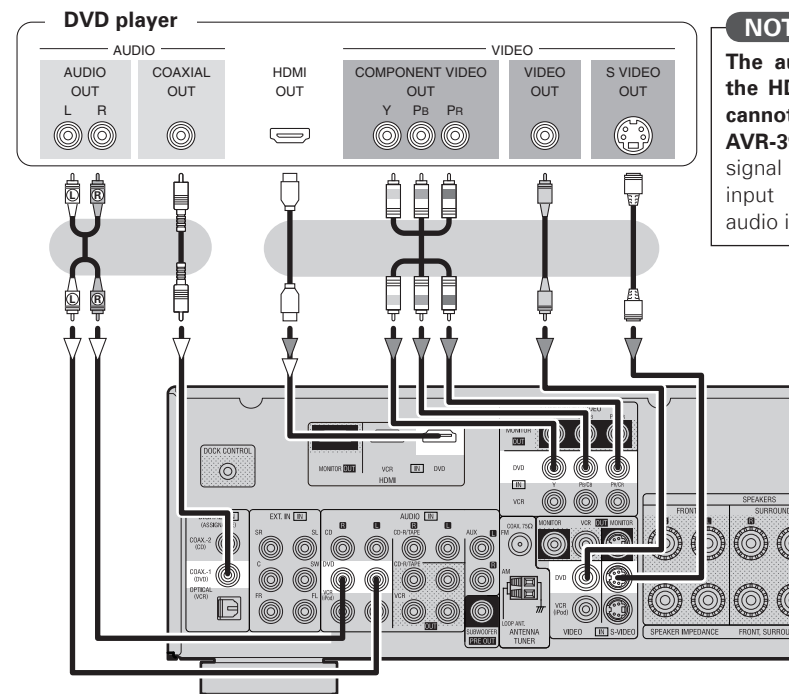
- The AVR-390 supports four video input formats: HDMI, component video, S-Video and video. Because video signals are output from the AVR-390's monitor output terminal in the same format as the video input signals, **the monitor output terminal should be of the same type as the terminal used for input.**
- The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions.
- To play the sound by AVR-390, make analog or digital audio output connections to AVR-390's audio input connectors.

Connecting the Playback Components

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

DVD Player

Select the terminal to use and connect the device.



NOTE

The audio signal input to the HDMI input connector cannot be played on the AVR-390. Input the audio signal to the digital audio input connector or analog audio input connector.



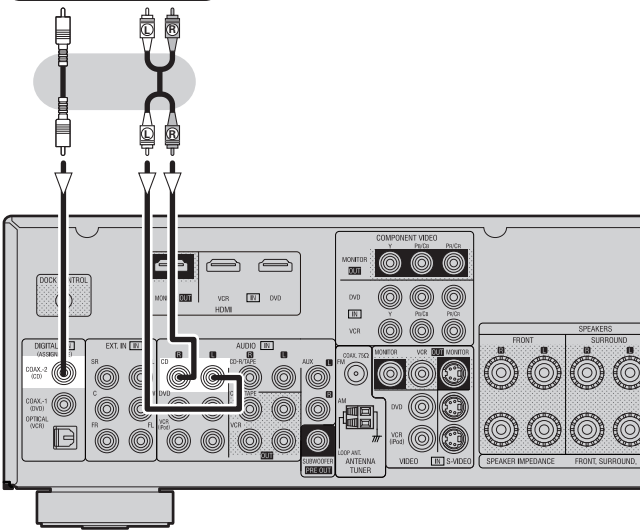
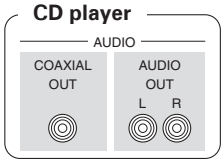
The same method can be used to connect an HDP (High-Definition Player) such as a Blu-ray Disc player.

NOTE

Because video signals are output from the AVR-390's monitor output terminal in the same format as the video input signals, **the monitor output terminal should be of the same type as the terminal used for input.**

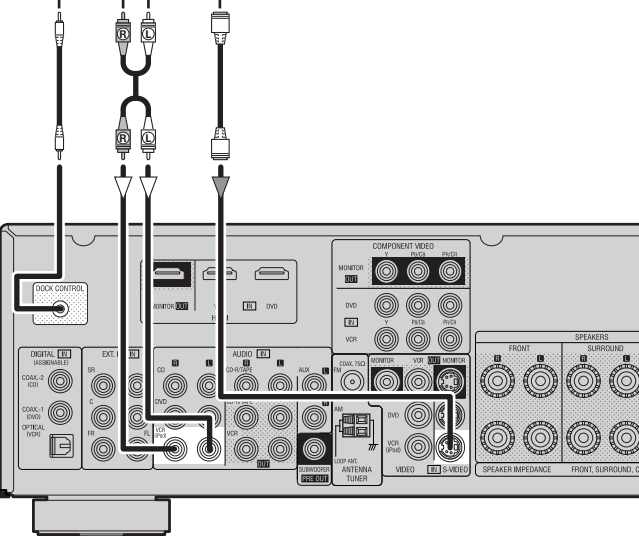
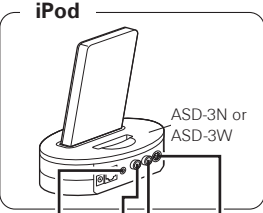
CD Player

Select the terminal to use and connect the device.



iPod®

Use a DENON control dock for iPod (ASD-1R, ASD-11R, ASD-3N or ASD-3W, sold separately) to connect the iPod to the AVR-390. For instructions on the control dock for iPod settings, refer to the control dock for iPod's operating instructions.



- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- To assign the iPod to a connector other than VCR (iPod), make the settings at "iPod Assign" – "Assign" (page 16).

NOTE

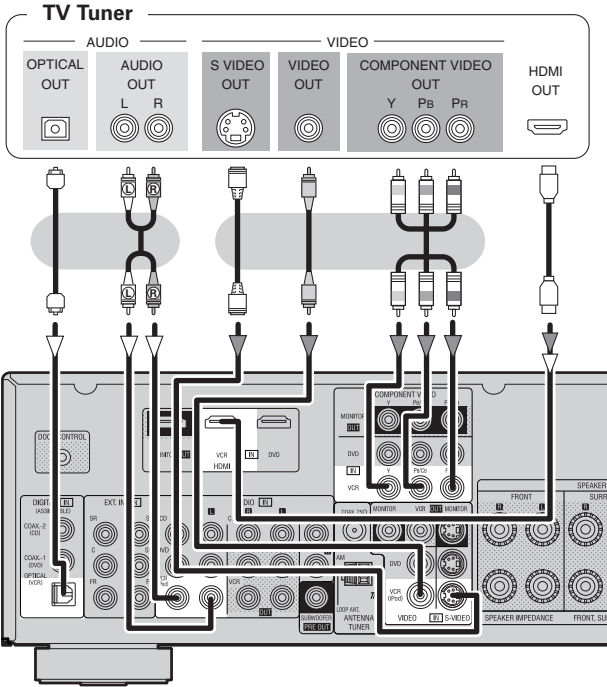
To playback iPod Video or Photos on a TV monitor, connect the TV to the S-Video Out terminal of AVR-390.

TV/CABLE Tuner

Select the terminal to use and connect the device.

NOTE

The audio signal input to the HDMI input connector cannot be played on the AVR-390. Input the audio signal to the digital audio input connector or analog audio input connector.



NOTE

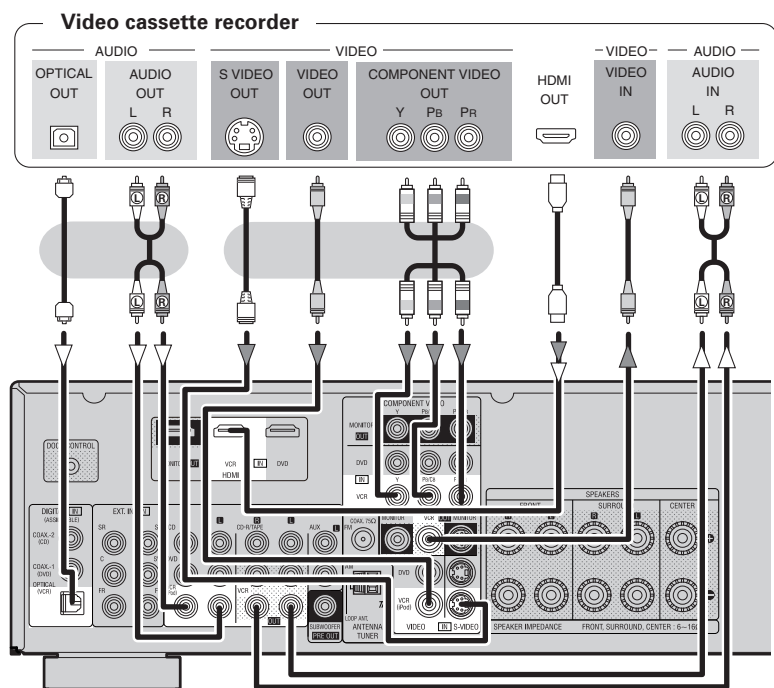
Because video signals are output from the AVR-390's monitor output terminal in the same format as the video input signals, the monitor output terminal should be of the same type as the terminal used for input.

Connecting the Recording Components

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

Video Cassette Recorder

Select the terminal to use and connect the device.



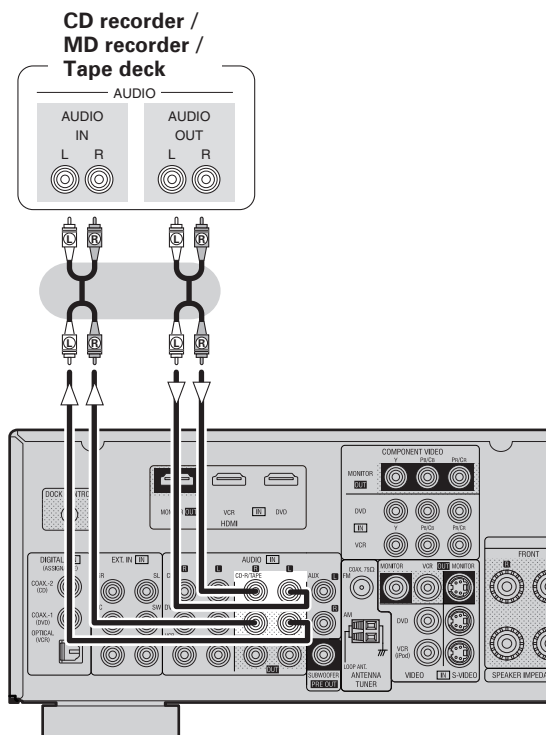
- When recording via the AVR-390, the playback device's cable must be of the same type as the cable used to connect the AVR-390's VCR OUT connector.
- Example:** DVD IN → Video cable : VCR OUT → Video cable
- Connect AUDIO and VIDEO VCR OUT terminals when video recording. When connecting a video cassette recorder to AVR-390, be sure also to connect these terminals beforehand.

NOTE

Digital signals are not output from the REC OUT (CD-R/TAPE and VCR) connector.

CD Recorder / MD Recorder / Tape Deck

Select the terminal to use and connect the device.



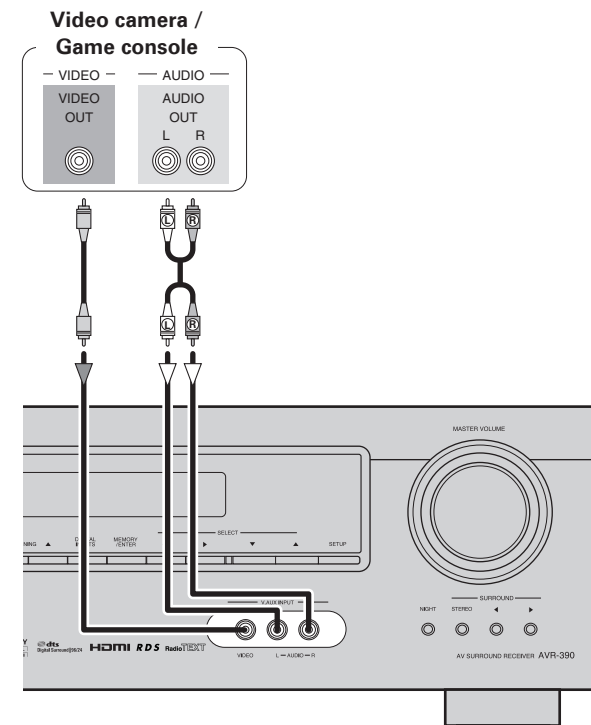
Connect AUDIO CD-R/TAPE OUT terminals when audio recording. When connecting a CD recorder, MD recorder or tape deck to AVR-390, be sure also to connect these terminals beforehand.

Connections to Other Devices

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

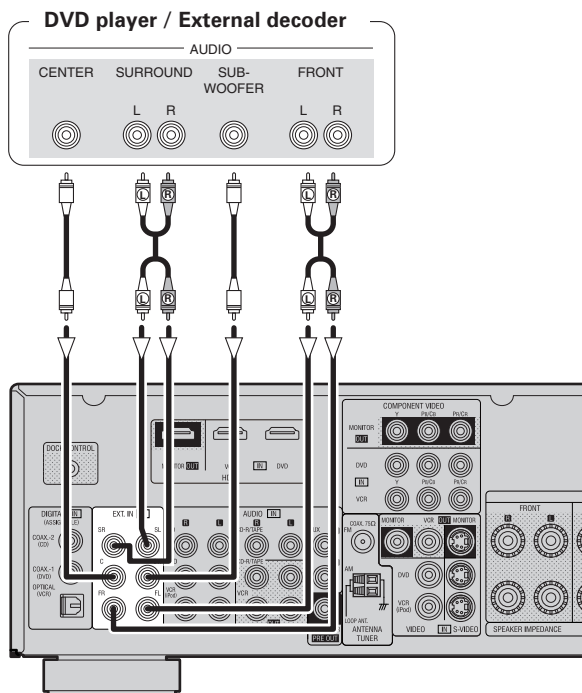
Video Camera / Game Console

Select the terminal to use and connect the device.



Component with Multi-channel Output Connectors

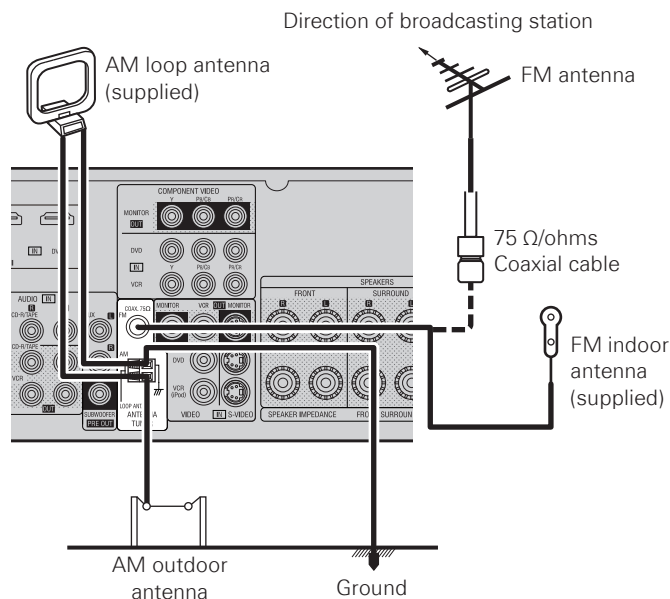
Select the terminal to use and connect the device.



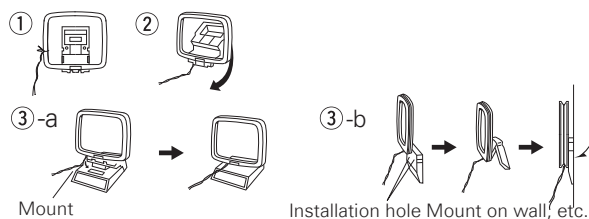
- To play the analog input signals input to the EXT. IN connectors, press the **EXT. IN** button (page 22).
- The video signal can be connected in the same way as a DVD player (page 11).
- To play copyright-protected discs, connect the AVR-390's EXT. IN connector with the DVD player's analog multi-channel output connector.

Antenna Terminals

An FM antenna cable plug can be connected directly.



AM loop antenna assembly



- :Remove the vinyl tie and take out the connection line.
- :Bend in the reverse direction.
- a :With the antenna on top of any stable surface.
- b :With the antenna attached to a wall.

Connection of AM antennas

1. Push the lever.
2. Insert the conductor.
3. Return the lever.

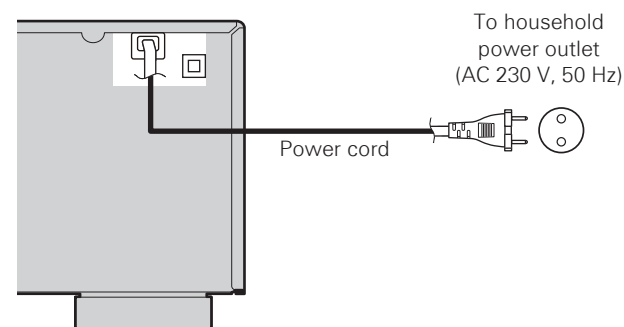


NOTE

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.

Connecting the Power Cord

Wait until all connections have been completed before connecting the power cord.



NOTE

Insert the AC plugs securely. Incomplete connections could cause noise.

Once Connections are Completed

Turning the Power On (page 22)

Operations

Menu Map

System Setup (page 16)

- Power On Level

iPod Assign (page 16)

- Assign

Speaker Setup (page 16, 17)

- Speaker Configuration
 - Front Speaker
 - Center Speaker
 - Surround Speaker
 - Subwoofer
- Subwoofer Mode Setup
 - Distance
 - Unit
 - Distance measurement
 - Crossover Frequency

Channel Level Setup (page 18)

- Adjusting the Current Channel Level
- Memorizing the Adjusted Channel Levels
- Select the Channel Level

Parameter (page 20, 21)

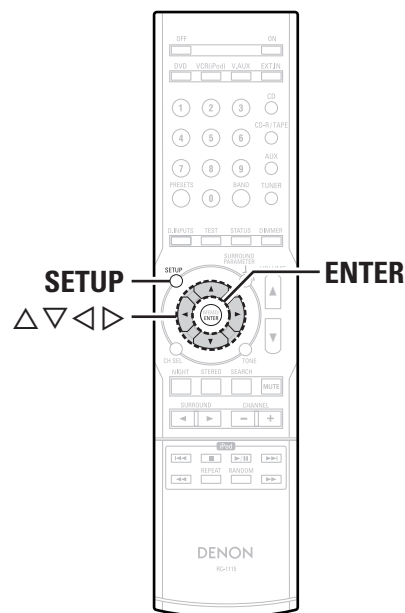
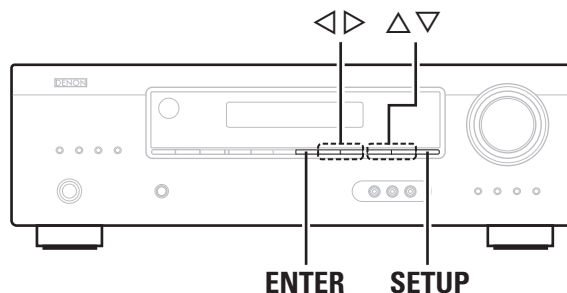
- Tone Control
 - Bass
 - Treble
- Night Mode
- Dolby PLII Music
 - Panorama
 - Center Width
 - Dimension

Menu Operations



Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
- Button only on the main unit → **<BUTTON>**
- Button only on the remote control unit → **[BUTTON]**



Operations

The same operation is possible on the main unit or remote control unit.

- 1 Press **SETUP**.
"SYSTEM" is displayed.
- 2 Press $\Delta \nabla$ to select the item you want to set, then press **ENTER**.
- 3 Press $\Delta \nabla$ again to select the item you want to set, then press **ENTER**.
- 4 To change the setting:
Press $\Delta \nabla$ to select the item you want to change, then press $\triangleleft \triangleright$ to change the setting.

- To move to a setup item of another category
Press $\Delta \nabla$ to select "RETURN", then press **ENTER**.
 - Returns to the setup menu.
 - Perform steps 3 and 4.
- To exit setup
Press **SETUP** while the setup menu is displayed.
 - The display returns to normal.

Example of Display of Default Values

In lists of selectable items or adjustable ranges, the item surrounded by a border is the default value.

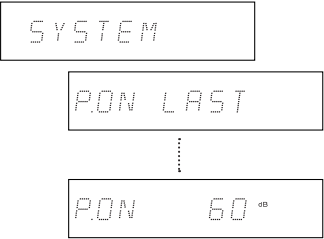
[Selectable items] **S** **L**

System Setup

Power On Level

This sets the volume set when the main zone’s power is turned on.

[Display]



[Variable range]

- LAST** : Displays the volume before the power was turned off.
- 0 ~ 60** : Set the volume level when the power is turned on in units of 1 dB.



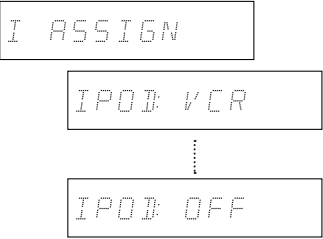
- The display shows “MIN” when you select “0 dB”.
- When the volume is 60 dB or more, a 60 dB volume is resumed when you turn the power off and then on again.

iPod Assign

Assign

Assign control dock for iPod to this source.

[Display]



[Assignable input source]

- VCR** **DVD** **CD** **CD-R / TAPE** *1 **AUX** **V.AUX** *2 **OFF**

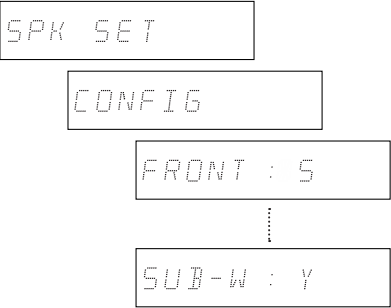
- * 1: The display shows “CDR”.
- * 2: The display shows “V.A”.

Speaker Setup

Speaker Configuration

Select speaker configuration and size (bass reproduction capability).

[Display]



Front Speaker

Select front speaker size.

[Selectable items] **L** **S**

Center Speaker

Select center speaker use and size.

[Selectable items] **L** **S** **N**

Surround Speaker

Select surround speakers use and size.

[Selectable items] **L** **S** **N**

- L** : Select this when using large speakers with ample low frequency reproduction capabilities.
- S** : Select this when using small speakers without ample low frequency reproduction capabilities.
- N** : Select this when no speaker is connected.

Subwoofer

Select subwoofer use.

[Selectable items]

- Y** : Select this when a subwoofer is connected.
- N** : Select this when no subwoofer is connected.

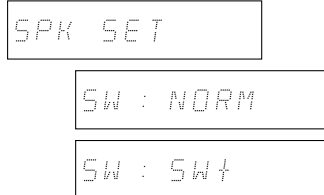


- When "Front Speaker" is set to "S", "Subwoofer" is automatically set to "Y".
- If "Subwoofer" is set to "N", "Front Speaker" is automatically set to "L".
- When "Front Speaker" is set to "S", "Center Speaker" and "Surround Speaker" can not be set to "L".

Subwoofer Mode Setup

Select low range signal to be reproduced by subwoofer.

[Display]



[Selectable items]

- NORM** : Play low range and LFE signal of channels set to "S".
- SW+** : Play low range and LFE signal of all channels.

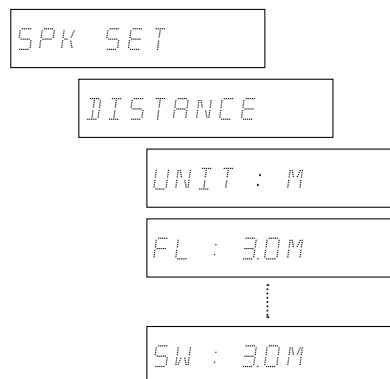


- This can be set when "Speaker Setup" – "Speaker Configuration" – "Subwoofer" is set to "Y".
- Play music or a movie source and select the mode offering the strongest bass.
- Select "SW+" if you want the bass signals to always be produced from the subwoofer.

Distance

Set distance from listening position to speakers. Before making the settings, measure the distance from the listening position to the different speakers.

[Display]



Unit

Select unit for distance.

[Selectable items]

- M** : Displays the distance setting in meters.
- FT** : Displays the distance setting in feet.

Distance measurement

Select the speaker you want to set, then set the distance. Set the value closest to the measured distance.

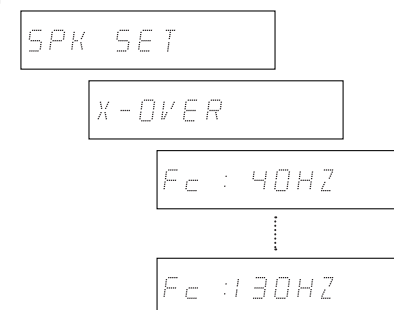
[Variable range]

- 0.0 ~ 9.0 M** : Display when "M" is set.
- 0 ~ 30 FT** : Display when "FT" is set.

Crossover Frequency

Select crossover frequency from which subwoofer handles low range signal.

[Display]



[Variable range] **40HZ** ~ **120HZ** ~ **130HZ**

Only the portion of the bass sound of the various speakers output from the subwoofer that has a frequency below the frequency set here is output.

Set this according to the low frequency reproduction capabilities of the speakers you are using.

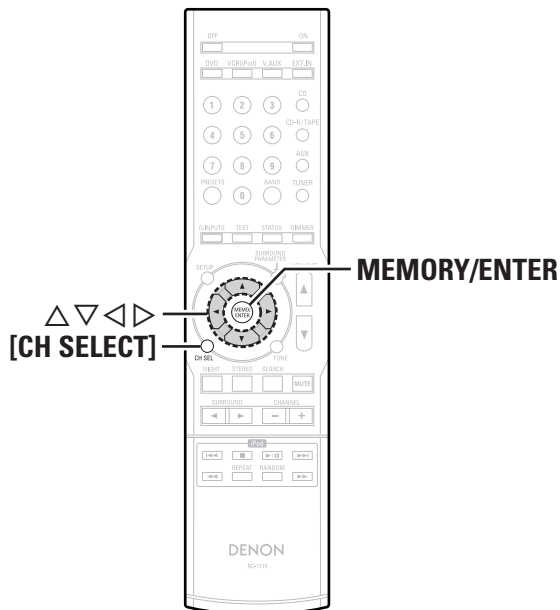
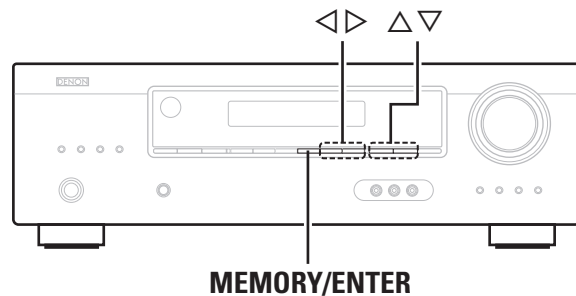


- For speakers set to "S", sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers.
- Always set the crossover frequency to "120HZ". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.

Channel Level Setup

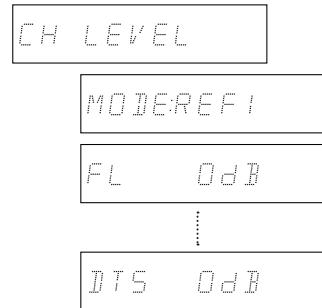
Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control unit → **BUTTON**
 Button only on the main unit → **<BUTTON>**
 Button only on the remote control unit → **[BUTTON]**



Adjust channel levels to obtain equal volume from all speakers.

[Display]



NOTE

Speaker set to "N" in the "Speaker Configuration" settings are not displayed.

Adjusting the Current Channel Level

You can adjust the current channel levels as desired. These adjusted levels are just memorized into user's memory ("REFERENCE 1").

After adjusting each channel level with test tone, adjust the channel levels either according to the program sources or to suit your tastes. (For details, refer to "Adjusting Each Channel Level with Test Tone" on page 28.)

- Press **Δ∇** to select the desired channel.
The speaker that can be set switches each time one of the buttons is pressed.
 FL ↔ C ↔ FR ↔ SR ↔ SL ↔ SW ↔ DD ↔ DTS
 ↗ MODE:REF1 ↖

- Press **<Δ>** to adjust the level of the selected channel or program source's LFE as desired.

[Variable range]

Other level : **-15dB** ~ **0dB** ~ **+15dB**

LFE level : **-10dB** ~ **0dB**

※ In general, we recommend the LFE level to be adjusted to 0 dB. (However, the recommended LFE level for some early DTS software is -10 dB.) If the recommended levels seem too high, lower setting as necessary.

- Repeat the above steps 1 and 2 to adjust each channel level.

Memorizing the Adjusted Channel Levels

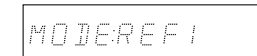
You can memorize the adjusted channel levels into preset memory ("REFERENCE 1", "REFERENCE 2") and recall the memorized whenever you want.

- After performing the steps 1 ~ 3 in "Adjusting the Current Channel Level" procedure on page 18, press **MEMORY/ENTER**.
The "1" of "REFERENCE 1" indication flashes.
- Press **<Δ>** to select the desired preset memory, then press **MEMORY/ENTER**.
 ※ Each time **<Δ>** is pressed, "REFERENCE 1" or "REFERENCE 2" is selected.
 ※ The adjusted channel levels have now been memorized into the selected memory.

Select the Channel Level

This selects the memorized channel level.

- Press **[CH SELECT]**.



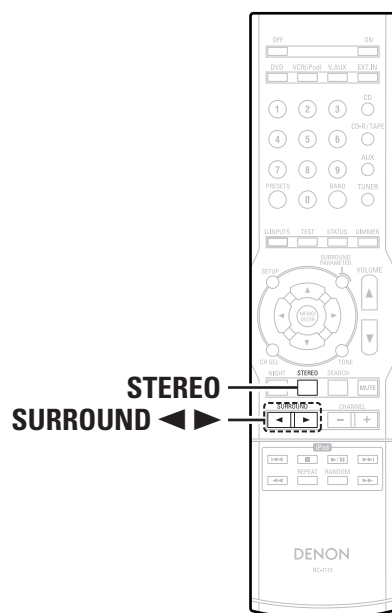
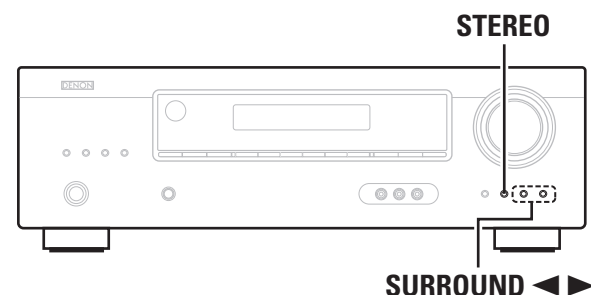
- Press **<Δ>** to select the mode ("REFERENCE 1" or "REFERENCE 2").
- After selecting the mode, press **[CH SELECT]** once again.
The display returns to normal.

Surround Modes



Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
 Button only on the main unit → **<BUTTON>**
 Button only on the remote control unit → **[BUTTON]**



Selecting the Surround Mode

Select by pressing **SURROUND** ◀▶.

[Selectable items]

AUTO SURROUND MODE : The optimum surround mode will be automatically selected depending on the signal format being input.

DOLBY PLII CINEMA : When enjoying movies, this mode allows you to further enhance the cinematic quality by adding processing that emphasizes the sounds of the action special effects.

DOLBY PLII MUSIC : When listening to music, this mode allows you to further enhance the sound quality by adding processing that emphasizes the musical effects.

DOLBY PRO LOGIC : Dolby Pro Logic is a specially encoded two channel surround format which consists of four channels (front left, center, front right and surround). Sources bearing the "DOLBY SURROUND" provide the theater-like surround sound.

MATRIX : This mode reproduces a delayed signals from the surround channels to emphasize the sense of expansion for music sources.

CHURCH : This mode provides the ambience of a church for baroque, string orchestral or choral group music.

THEATER : This mode provides the effect of being in a movie theater when watching a movie source.

HALL : This mode provides the ambience of a concert hall for classical music sources such as orchestral, chamber music, or an instrumental solo.

STADIUM : This mode provides the expansive sound field to achieve the true stadium effect when watching baseball or soccer games.

Stereo Playback

Select by pressing **STEREO**.

[Selectable items]

STEREO : This is the mode for playing in stereo. The tone can be adjusted. Sound is output from the front left and right speakers and subwoofer.

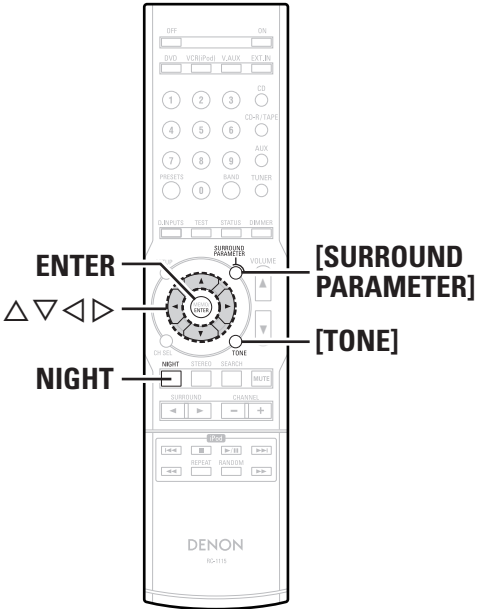
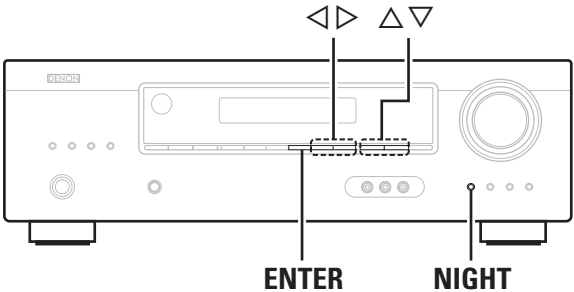
Input Signal	Display
Dolby Digital EX 6.1 channel sources / Dolby Digital 5.1 channel sources	DOLBY DIGITAL
	AUTO SURROUND
Dolby Digital 2 channel sources	DOLBY PLII CINEMA
	DOLBY PLII MUSIC
	DOLBY PRO LOGIC
	AUTO SURROUND
DTS	DTS
	AUTO SURROUND
DTS 96/24	DTS 96/24
	AUTO SURROUND
96 kHz PCM (2 channel) sources	DOLBY PLII CINEMA
	DOLBY PLII MUSIC
	DOLBY PRO LOGIC
	AUTO SURROUND
PCM (2 channel) sources / Analog stereo sources	DOLBY PLII CINEMA
	DOLBY PLII MUSIC
	DOLBY PRO LOGIC
	MATRIX
	CHURCH
	THEATER
	HALL
	STADIUM
	AUTO SURROUND

□ 2CH downmix mode

This mode allows the multi-channel signals encoded in DTS or Dolby Digital format to be mixed down into two front channels and to be reproduced through only two front speakers or through headphones.

**Symbols used to indicate buttons in this manual**

Button located on both the main unit and the remote control unit → **BUTTON**
Button only on the main unit → **<BUTTON>**
Button only on the remote control unit → **[BUTTON]**



Parameter

Adjust surround sound parameters.
The parameters (items) which can be adjusted differ depending upon the following conditions.

- Whether an input signal is present (when playing) or not (when stopped, etc.).
- The type of input signal
- The type of surround mode

For details of which parameters can be adjusted in each surround mode, see “Surround Modes and Parameters” (📖 page 31).

Tone Control

Turn tone adjustments on and off.

[Display]

PARAMTR

TONE: OFF

BASS 0

TRBL 0

- [Selectable items]**
- ON** : Allow tone adjustment (treble, bass).
 - OFF** : Playback without tone adjustment.

 You can change the “Bass” and “Treble” settings when you set “Tone Control” to “ON” and press **ENTER**.

Bass

Adjust low frequency range (bass).

[Variable range] **-10dB** ~ **0dB** ~ **+10dB**

Treble

Adjust high frequency range (treble).

“TRBL” is displayed.

[Variable range] **-10dB** ~ **0dB** ~ **+10dB**

 “Bass” and “Treble” can be set when “Tone Control” is set to “ON”.

Operating from the remote control unit

- ① Press **[TONE]**.
The display shows the currently set tone mode.
- ② Press **<Δ>** to select the desired tone mode.
ON ↔ OFF
- ③ Press **Δ▽** to select the desired tone.
BASS ↔ TREBLE
TONE:ON
- ④ Press **<Δ>** to adjust the selected tone as desired.
※ To complete tone adjustment, repeat the above steps 3 and 4.
※ If the tone display disappears, start from the step 1 again.

 In general, we recommend the bass and treble to be adjusted to 0 dB (flat level).

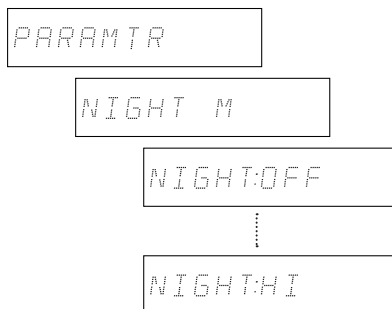
NOTE

- When the EXT. IN is selected as an input source, you can neither select the tone mode nor adjust the tone.
- Extreme settings at high volume may damage your speakers.

Night Mode

Optimized setting for late-night listening.
Set the dynamic range compression of the output audio.

[Display]



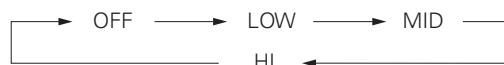
[Selectable items]

- OFF** : Turn night mode off.
LOW : Low setting.
MID : Middle setting.
HI : High setting.



Operating from the main unit or remote control unit

Press **NIGHT**.



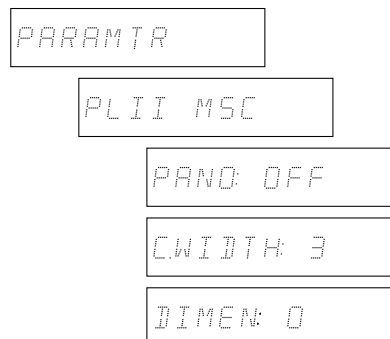
You can also use the following method to select "Night Mode".

- ① Press **[SURROUND PARAMETER]**.
- ② Press **[<D>]**.

Dolby PLII Music

You can adjust the various surround parameters for optimum surround effect.

[Display]



NOTE

The parameter settings are valid only when listening in Dolby Pro Logic II Music mode.

Panorama

Assign front L/R signal also to surround channels, for wider sound.
If the surround effect seems weak, set "Panorama" to "ON".

[Selectable items] **ON** **OFF**

Center Width

Assign center channel signal to front left and right channels for wider sound.

[Variable range] **0** ~ **3** ~ **7**

Dimension

Shift sound image center to front or rear, to adjust playback balance.

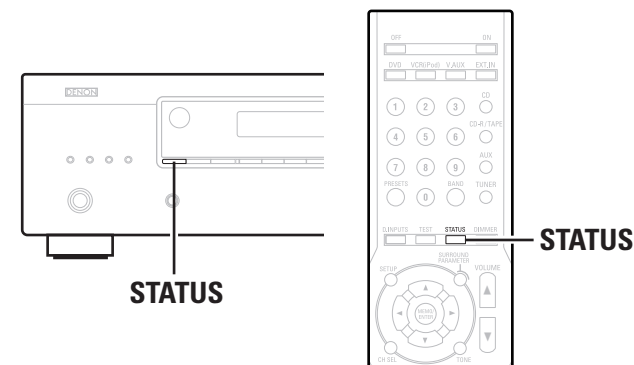
[Variable range] **-3** ~ **0** ~ **+3**

Information



Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
 Button only on the main unit → **<BUTTON>**
 Button only on the remote control unit → **[BUTTON]**



Information on the main unit's various settings (Status) and on input signals (Audio Input Signal) is shown on the display.
The information displayed changes each time you press **STATUS**.
The information is displayed for several seconds before the display returns to its original condition.

[Items to be checked]

- Surround Mode
- Input signal
- Input digital terminal
- Night Mode
- Tone Control
- Channel level of each speaker

etc.



- The items displayed will differ depending upon the current settings, the presence or absence of an input signal or the type of input signal, etc.
- For details of the content of the items displayed, refer to the page containing an explanation of the settings.

Playback

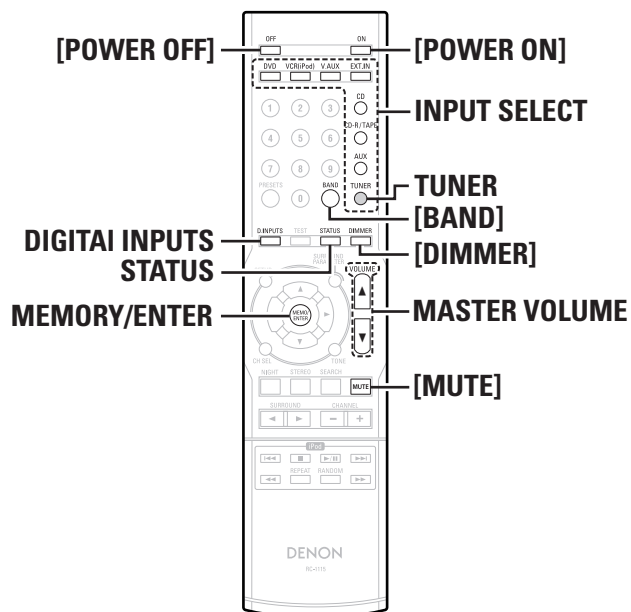
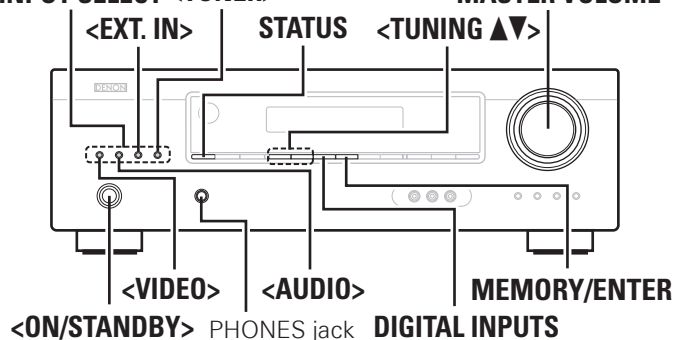


Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
 Button only on the main unit → **<BUTTON>**
 Button only on the remote control unit → **[BUTTON]**

INPUT SELECT <TUNER>

MASTER VOLUME



Preparations

Turning the Power On

- 1 Connect the power cord.**
The power indicator lights red and the power is set to the standby mode.

- 2 Press <ON/STANDBY> or [POWER ON].**
The power indicator flashes green and the power turns on.
 ※ Also press **INPUT SELECT** when in standby mode, the power turns on. In this case the input source is selected by remote control unit.

Turning the Power Off

Press <ON/STANDBY> or [POWER OFF].
The power is set to the standby mode.

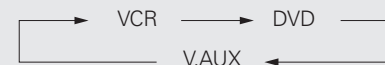
NOTE

Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when traveling, unplug the power cord from the power outlet.

Selecting the Input Source

Select the source using INPUT SELECT.

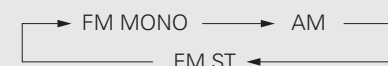
The input source changes as follows each time you press <VIDEO>.



The input source changes as follows each time you press <AUDIO>.



The input source changes as follows each time you press <TUNER>.



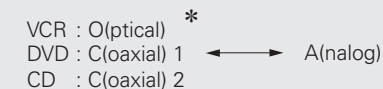
Press <EXT. IN> to select "EXT. IN".

Switching between Digital Audio Input and Analog Audio Input

When a single source is connected by both digital and analog connectors, this enables you to change the audio input method with one button.

Press DIGITAL INPUTS.

Each time this button is pressed, the corresponding input is selected as follows:



* Displays the connected terminal name.

NOTE

- When TUNER, AUX, CD-R / TAPE, EXT. IN or V.AUX is selected as an input source, the analog input is selected automatically.
- When the selected digital input is not connected, the analog input is automatically selected.
- The sound from the component connected to the selected digital input can be heard regardless of the selected input source.

Operations During Playback

Adjusting the Master Volume

Either turn <MASTER VOLUME> or press [MASTER VOLUME].

[Variable range] 0 dB ~ 80 dB



The display shows "MIN" when you select "0 dB".
The display shows "MAX" when you select "80 dB".

NOTE

The adjustable range will differ depending upon factors such as the type of input signal and the channel level setting.

Turning Off the Sound Temporarily (Muting)

Press [MUTE].

The display shows "MUTE".



To cancel, press [MUTE] again. Muting can also be canceled by adjusting the master volume.

Listening with Headphones

Plug the headphones into the PHONES jack on the main unit.

The sound from the speakers and pre-out connectors is automatically cut.

NOTE

Be careful not to set the volume too high when using headphones.

Checking the currently playing program source, etc.

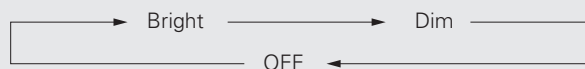
Press **STATUS**.

The current program source and various settings are indicated on the display.

For details, refer to "Information" (📖 page 21).

Switching the brightness of the display

Press [DIMMER].



Playing Video and Audio Equipment

Basic Operation

1 Prepare the equipment.

- ① Load the DVD, CD or other software in the player.
(📖 See the operating instructions of the respective devices.)
- ② To play a video device, switch the monitor input.
(📖 See the monitor's operating instructions.)

2 Use INPUT SELECT to select the input source.

3 Start playback. (📖 See the operating instructions of the respective devices.)

Listening to FM/AM Broadcasts



See page 29 for tuning interval change mode.

Basic Operation

1 Press **TUNER** to select "TUNER".

2 Press <TUNER> or [BAND] to select "FM" or "AM".

3 Tune in the desired broadcast station.

① To tune in automatically (Auto Tuning)

Press and hold in <TUNING ▲ ▼> to automatically search and tune in broadcast stations.

※ Stations whose signal is weak cannot be turned in.

※ When auto tuning stops, press <TUNING ▲ ▼>.

② To tune in manually (Manual Tuning)

The reception frequency switches each time <TUNING ▲ ▼> is pressed.



If the desired station cannot be tuned in with auto tuning, tune it in manually.

Automatically Presetting FM Stations (Auto Preset)

Up to 30 stations can be preset.

Auto preset is not possible with AM broadcast stations.

1 Press <TUNER> or [BAND] to select "FM".

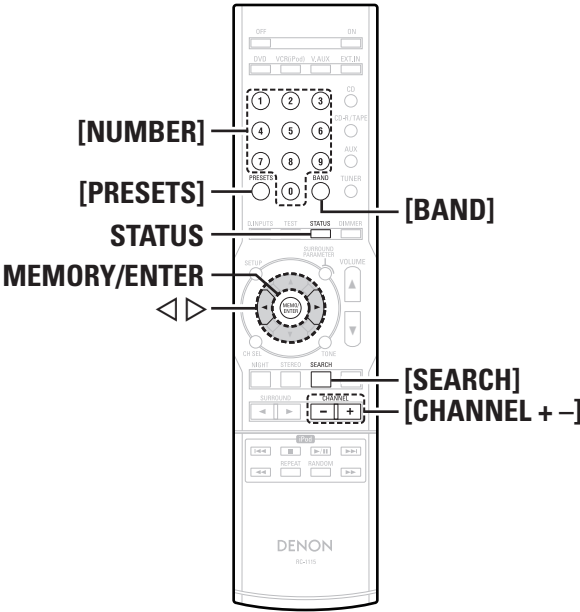
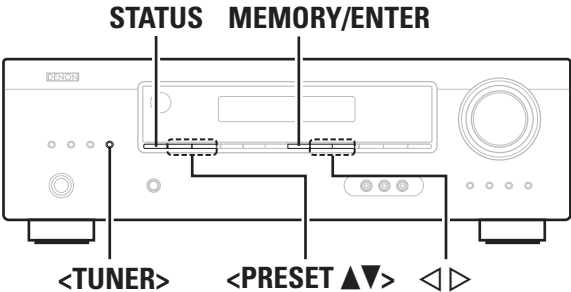
2 Press and hold in **MEMORY/ENTER**. "AUTO MEM" flashes.



- Broadcast stations whose antenna signal are weak cannot be preset automatically. If you wish to preset such stations, tune them in manually.
- Once auto presetting starts, it cannot be stopped before it is completed. (It takes about 60 seconds for auto presetting to be completed.)

**Symbols used to indicate buttons in this manual**

Button located on both the main unit and the remote control unit → **BUTTON**
Button only on the main unit → **<BUTTON>**
Button only on the remote control unit → **[BUTTON]**



Presetting FM/AM Stations Manually

Up to 30 stations (total for FM and AM) can be preset.

- 1 Tune in the station.
- 2 Press **MEMORY/ENTER**.
“MEM” flashes.
- 3 Select the number to be preset using **[NUMBER]** (0 ~ 9) or **<PRESET Δ∇>** and press **MEMORY/ENTER**.
The reception frequency and reception mode are preset.
- ※ When using **[NUMBER]**, the station is stored automatically without pressing **MEMORY/ENTER**.

NOTE
Preset stations are erased by overwriting them.

Listening to Preset Stations

Use **[NUMBER]** (0 ~ 9) to select the preset number.

 Can also be select by pressing **[CHANNEL + -]**.

Performing Preset Search

- 1 Press **[PRESETS]**.
This lets you search the receivable broadcast stations from among those you have registered as presets. Stops searching for approximately 5 seconds each time a broadcast station is received.
- 2 Press **[PRESETS]** once again when the broadcast station you want to listen to is received.
Preset search stops.

RDS (Radio Data System)

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.
The following three types of RDS information can be received with this unit:

Program Type (PTY)

PTY identifies the type of RDS program.
The program types and their displays are as follows:

NEWS	News	OTHER M	Other Music
AFFAIRS	Current Affairs	WEATHER	Weather
INFO	Information	FINANCE	Finance
SPORT	Sports	CHILDREN	Children's programmes
EDUCATE	Education	SOCIAL	Social Affairs
DRAMA	Drama	RELIGION	Religion
CULTURE	Culture	PHONE IN	Phone In
SCIENCE	Science	TRAVEL	Travel
VARIED	Varied	LEISURE	Leisure
POP M	Pop Music	JAZZ	Jazz Music
ROCK M	Rock Music	COUNTRY	Country Music
EASY M	Easy Listening Music	NATION M	National Music
LIGHT M	Light Classical	OLDIES	Oldies Music
CLASSICS	Serious Classical	FOLK M	Folk Music
		DOCUMENT	Documentary

Traffic Program (TP)

TP identifies programs that carry traffic announcements. This allows you to easily find out the latest traffic conditions in your area before leaving home.

Radio Text (RT)

RT allows RDS stations to send text messages that appear on the display.

NOTE

The operations described below using **[SEARCH]** will not function in areas in which there are no RDS broadcasts.

RDS Search

Use this function to automatically tune to FM stations that provide the RDS service.

1 Press **<TUNER>** or **[BAND]** to select “FM”.

2 Press **[SEARCH]** until “RDS SRCH” appears on the display.

3 Press **ENTER** or **[CHANNEL + -]**.

The search for RDS stations begins automatically.

- ※ If no RDS stations are found with the above operation, all the reception bands are searched.
- ※ When a broadcast station is found, that station’s name appears on the display.

4 To continue searching, press **ENTER**.

- ※ If no RDS station is found when all the frequencies have been searched, “NO RDS” is displayed.

PTY Search

Use this function to find RDS stations broadcasting a designated program type (PTY). For a description of each program type, refer to “Program Type (PTY)”.

1 Press **<TUNER>** or **[BAND]** to select “FM”.

2 Press **[SEARCH]** until “PTY SRCH” appears on the display.

3 Watching the display, press **◀ ▶** to call out the desired program type.

4 Press **ENTER** or **[CHANNEL + -]**.
PTY search begins automatically.

- ※ If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.
- ※ The station name is displayed on the display after searching stops.

5 To continue searching, press **ENTER**.

- ※ If no station broadcasting the designated program type is found when all the frequencies have been searched, “NO PRGRM” is displayed.

TP Search

Use this function to find RDS stations broadcasting traffic programs (TP stations).

1 Press **<TUNER>** or **[BAND]** to select “FM”.

2 Press **[SEARCH]** until “TP SRCH” appears on the display.

3 Press **ENTER** or **[CHANNEL + -]**.
TP search begins automatically.

- ※ If no TP station is found with the above operation, all the reception bands are searched.
- ※ The station name is displayed on the display after searching stops.

4 To continue searching, press **ENTER**.

- ※ If no other TP station is found when all the frequencies have been searched, “NO PRGRM” is displayed.



When you press **STATUS** during RDS reception, you can display PTY name and Radio Text.

NOTE

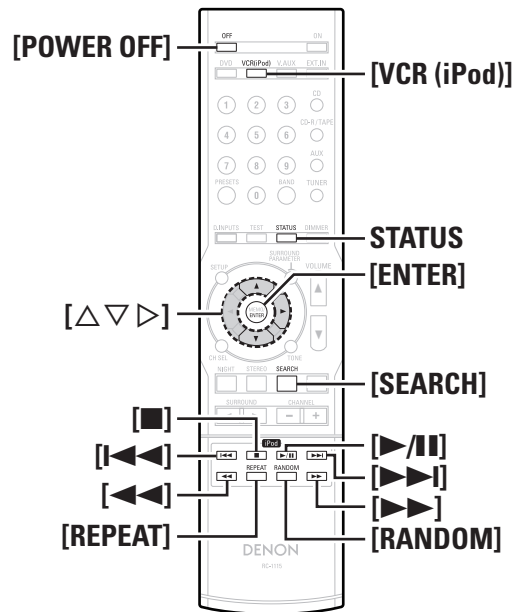
- When PTY name cannot be displayed, “NO PRGRM” is shown on the display.
- When Radio Text cannot be displayed, “NO TEXT” is shown on the display.

Button located on both the main unit and the remote control unit —————→ **BUTTON**

Button only on the main unit —————→ **<BUTTON>**

Button only on the remote control unit —————→ **[BUTTON]**

The diagram shows the front panel of the device. A vertical line points to the power button, which is labeled with the text **<ON/STANDBY>**. Another vertical line points to the indicator lights, which are represented by two downward-pointing triangles.



The music on an iPod can be played by using the control dock for iPod (ASD-1R, ASD-11R, ASD-3N or ASD-3W, sold separately). The operation can also be performed using the buttons on the remote control unit.



iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

※ The iPod may only be used to copy or play contents that are not copyrighted or contents for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

1 Make the necessary preparations.

- ① Set the iPod in the DENON control dock for iPod.
( See the control dock for iPod's operating instructions.)
- ② Assign the control dock for iPod's input.
The input for the control dock for iPod is assigned to VCR by default.

“iPod Assign” – “Assign” (👉 page 16)

- 2** Press **<INPUT SELECT>** or **[VCR (iPod)]** to select the input source assigned in step 1-② above.

- 3** Press **[SEARCH]** and hold it down for a 2 seconds or more to select the display mode.

To switch between modes, press and hold down the button. When remote mode is active, "REMOTE" is displayed.

[Display mode]		Browse mode	Remote mode
Display location		Main unit display	iPod display
Playable files	Audio file	○	○
	Video file	○ * 1	○ * 2
Active buttons	Remote control unit (AVR-390)	○	○
	iPod	×	○

*1 : When using an ASD-3N or ASD-3W control dock for iPod.

*2: Video may not be output, depending on the combination of ASD-1R or ASD-11R and iPod.



- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- Press **<ON/STANDBY>** or **[POWER OFF]** and set the AVR-390's power to the standby mode before disconnecting the iPod. Also switch the input source to one to which "iPod Assign" is not assigned before disconnecting the iPod.
- When using an ASD-3N or ASD-3W control dock for iPod, refer to the respective manual to operate.
- When you wish to output iPod video to a monitor, connect the S-Video output of the control dock for iPod to the S-Video input terminal (DVD or VCR) of AVR-390.

Listening to Audio

- 1 Use **[△▽]** to select the item, then press **[ENTER]** or **[▷]** to select the music file to be played.
- 2 Press **[ENTER]** or **[▷]**.
Playback starts.

❑ To pause

During playback, press [▶/⏸].
Press again to resume playback.

❑ Fast-forwarding or fast-reversing

During playback, either press and hold △ (to fast-reverse) or ▽ (to fast-forward), or press [◀◀] or [▶▶].

❑ To cue to the beginning of a track

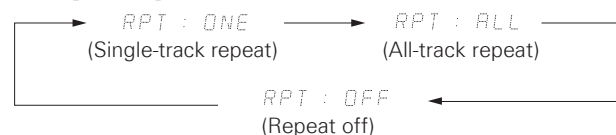
During playback, either press △ (to cue to the previous track) or ▽ (to cue to the next track), or press [◀◀] or [▶▶].

❑ To stop

During playback, press [■].

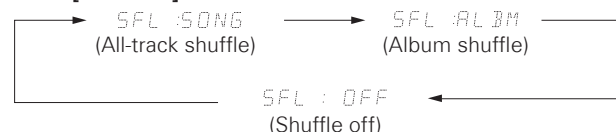
❑ Playing repeatedly

Press [REPEAT].



❑ Shuffling playback

Press [RANDOM].



- To check the name of the title, the artist or the album when playing in browse mode, press **STATUS**.
- The folder name and the file name can be displayed in browse mode. Only alphanumeric characters and certain symbols can be displayed. Any characters that cannot be displayed are replaced with “.”.

NOTE

- Depending on the type of iPod and the software version, some functions may not operate.
- DENON will accept no responsibility whatsoever for any loss of iPod data.

Viewing Still Pictures or Videos on the iPod

Photo and video data on the iPod can be viewed on the monitor.
Only for iPod equipped with slideshow or video functions.

When using an ASD-1R or ASD-11R

- 1 Press and hold [SEARCH] to set the Remote mode.
- 2 Watching the iPod's screen, use [△▽] to select “Photos” or “Videos”.
- 3 Press [ENTER] until the image you want to view is displayed.



“TV Out” at the iPod’s “Slideshow Settings” or “Video Settings” must be set to “On” in order to display the iPod’s photo data or videos on the monitor. For details, see the iPod’s operating instructions.

When using an ASD-3N or ASD-3W

- 1 Press and hold [SEARCH] to set the Browse mode.
- 2 Watching the display, use [△▽] to select “* IPOD”, then press [▷] or [ENTER].
- 3 Use [△▽] to select “* VIDEO”, then press [▷] or [ENTER].
- 4 Use [△▽] to select the video file to be played, then press [▷] or [ENTER].



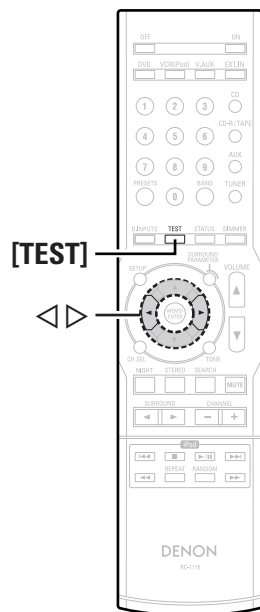
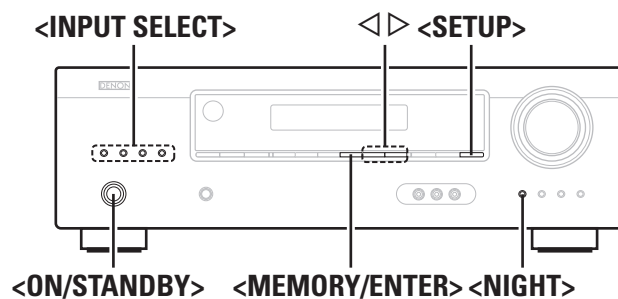
When viewing a still picture, perform the same operation as with ASD-1R or ASD-11R.

Other Operations and Functions



Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
- Button only on the main unit → **<BUTTON>**
- Button only on the remote control unit → **[BUTTON]**



Other Operations

Recording on an External Device

First connect the device from which you want to record to the AVR-390.

- 1 Press **<INPUT SELECT>** to choose the input source to be recorded.
- 2 Set the recorder to the recording mode.
※ For instructions on operating, see the operating instructions of the connected component.
- 3 Start playback on the player.
※ For instructions on operating, see the operating instructions of the connected component.



Make a test recording before starting the actual recording.

NOTE

- Recordings you make are for your personal enjoyment and should not be used for other purposes without permission of the copyright holder.
- Digital signals are not output from the REC OUT (CD-R/TAPE and VCR) connector.
- Audio and video signals input from the VCR IN connector are not output from the VCR OUT connector. Audio signal input from the CD-R/TAPE IN connector are not output from the CD-R/TAPE OUT connector.

Convenient Functions

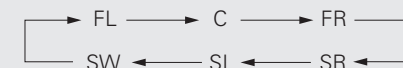
Adjusting Each Channel Level with Test Tone

The volume level of each channel can be adjusted easily with the test tone function.

- 1 Press **[TEST]**.

TEST-FL

※ The test tone mode is displayed and will be heard from the speaker of each channel for 2 seconds as follows:



※ When the speaker setting is "N", the test tone of the corresponding channel is not available.

- 2 Press **<< >>** when the speaker for which you want to adjust the volume is displayed.

[Variable range]

Other level : **-15dB** ~ **0dB** ~ **+15dB**

※ If there is no operation for approximately 2 seconds, the display shows the next speaker.

- 3 When you have finished setting, press **[TEST]** once again.

※ The set channel level overwrites "REFERENCE1" in memory.



When you want to memorize "REFERENCE2", see "Memorizing the Adjusted Channel Levels" (page 18).

Personal Memory Plus Function

This function sets the settings (input mode, surround mode etc.) last selected for the individual input sources.

When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.



The surround parameters, tone control and the volumes of the different speakers are stored for the individual surround modes.

Last Function Memory

This stores the settings as they were directly before the standby mode was set.

When the power is turned back on, the settings are restored to as they were directly before the standby mode was set.

Backup Memory

The various settings are backed up for about 1 week, even if the power is turned off or the power cord is disconnected.

Special Mode

Resetting the Microprocessor

Perform this procedure if the display is abnormal or if operations cannot be performed.

When the microprocessor is reset, all the settings are reset to their default values.

- 1** Turn off the power using **<ON/STANDBY>**.
- 2** While pressing **<MEMORY/ENTER>**, press **<ON/STANDBY>**.
- 3** Release the button when “CLEAR” is shown on the display.
- 4** Press **<ON/STANDBY>** to complete.



If “CLEAR” was not displayed in step 3, repeat operations from step 1.

Tuning Interval Change

The AM (FM) tuning interval is factory-set to the 9 kHz (50 kHz) position.

If the allocation system of your country is based on the bottom of the unit to the 10 kHz (200 kHz) interval, it is possible to switch according to the following procedure.

When set to tuning interval change mode, the following contents are changed.

- Tuning frequency interval change
- Preset channel initialization

- 1** Turn on the power while pressing **<SETUP>** and **<NIGHT>**.
“TUNERSET” is displayed for about 2 seconds.
After about 2 seconds, the set interval is displayed.
- 2** Select the interval with **<◀ ▶>**.
- 3** Press **<ON/STANDBY>** to complete.

Other Information

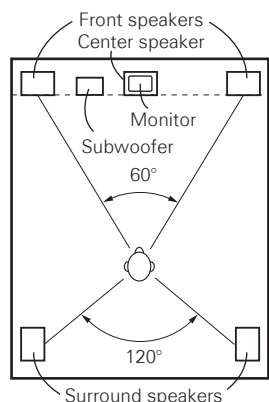
About Speaker Installation

Examples of speaker layouts

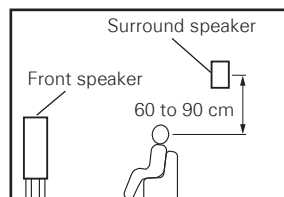
Below we introduce examples of speaker layouts. Refer to these to arrange your speakers according to their type and how you want to use them.

Basic Setting

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1-channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.



[As seen from above]



[As seen from the side]

Surround

The AVR-390 is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

Dolby Surround

Dolby Digital

Dolby Digital is a multichannel digital signal format developed by Dolby Laboratories.

A total of 5.1-channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved.

A real, overpowering sense of presence is achieved when playing movie sources in AV rooms as well.

Dolby Pro Logic II

Dolby Pro Logic II is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5-channels to achieve an excellent surround effect.

The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a "three-dimensional" sound image offering a rich sense of presence for all stereo sources.

Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

DTS Surround

DTS Digital Surround

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1-channels of digital discrete surround sound.

DTS 96/24

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1-channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535; 7,003,467 & other U.S. and worldwide patents issued & pending. DTS, DTS Digital Surround, and Neo:6 are registered trademarks and the DTS logos, Symbol and DTS 96/24 are trademarks of DTS, Inc. ©1996-2007 DTS, Inc. All Rights Reserved.

HDMI (High-Definition Multimedia Interface)

HDMI is a digital interface standard for next generation TVs based on DVI (Digital Visual Interface) standards and optimized for use in consumer equipment.

Non-compressed digital video and multi-channel audio signals are transmitted with a single connection.

HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same way as with DVI.

Deep Color

Eliminates on-screen color banding, for smooth tonal transitions and subtle gradations between colors.

Enables increased contrast ratio.

Can represent many times more shades of gray between black and white.

At 30-bit pixel depth, a four times improvement would be the minimum, and the typical improvement would be eight times or more.

xvYCC

Next-generation "xvYCC" color space supports 1.8 times as many colors as existing HDTV signals.

Lets HDTVs display colors more accurately.

Enables displays with natural, vivid colors.

"HDMI", "HDMI logo" and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC.

Surround Modes and Parameters

Surround mode	Signals and adjustability in the different modes			
	Channel output			
	Front L/R	Center	Surround L/R	Subwoofer
Auto Surround	○	⊙	⊙	⊙
DOLBY PRO LOGIC II Cinema	○	⊙	⊙	⊙
DOLBY PRO LOGIC II Music	○	⊙	⊙	⊙
DOLBY PRO LOGIC	○	⊙	⊙	⊙
MATRIX	○	⊙	⊙	⊙
CHURCH	○	⊙	⊙	⊙
THEATER	○	⊙	⊙	⊙
HALL	○	⊙	⊙	⊙
STADIUM	○	⊙	⊙	⊙
STEREO	○	×	×	⊙
EXT. IN	○	○	○	○

○ : Signal / Adjustable
 × : No signal / Not adjustable
 ⊙ : Turned on or off by speaker configuration setting

Surround mode	Signals and adjustability in the different modes			
	Parameter (default values are shown in parentheses)			
	PRO LOGIC II Music mode only			Tone Control
	Panorama	Dimension	Center Width	
Auto Surround	×	×	×	○ (0 dB)
DOLBY PRO LOGIC II Cinema	×	×	×	○ (0 dB)
DOLBY PRO LOGIC II Music	○ (OFF)	○ (3)	○ (3)	○ (0 dB)
DOLBY PRO LOGIC	×	×	×	○ (0 dB)
MATRIX	×	×	×	○ (0 dB)
CHURCH	×	×	×	○ (0 dB)
THEATER	×	×	×	○ (0 dB)
HALL	×	×	×	○ (0 dB)
STADIUM	×	×	×	○ (0 dB)
STEREO	×	×	×	○ (0 dB)
EXT. IN	×	×	×	×

○ : Adjustable
 × : Not adjustable

Differences in Surround Mode Names Depending on the Input Signals

Surround mode	Input signals							
	ANALOG	LINEAR PCM	LINEAR PCM (Multi ch)	DTS		DOLBY DIGITAL		
				DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)
Auto Surround	⊙	⊙	×	⊙	⊙	⊙	⊙	⊙
DOLBY PRO LOGIC II Cinema	○	○	×	×	×	×	×	○
DOLBY PRO LOGIC II Music	○	○	×	×	×	×	×	○
DOLBY PRO LOGIC	○	○	×	×	×	×	×	○
MATRIX	○	○	×	×	×	×	×	×
CHURCH	○	○	×	×	×	×	×	×
THEATER	○	○	×	×	×	×	×	×
HALL	○	○	×	×	×	×	×	×
STADIUM	○	○	×	×	×	×	×	×
STEREO	○	○	×	○	○	○	○	○

○ : Selectable mode
 × : Non-selectable mode
 ⊙ : Mode selectable in initial status

Troubleshooting

If a problem should arise, first check the following:

1. Are the connections correct?
2. Is the set being operated as described in the owner's manual?
3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.

In this case, disconnect the power immediately and contact your store of purchase.

[General]

Symptom	Cause	Countermeasure	Page
Set does not operate properly.	• External noise or interference is causing the set to malfunction.	• Reset the microprocessor.	29
Power does not turn on, or turns off directly after it was turned on.	• Connection of the power cord is faulty.	• Check the insertion of the power cord plug.	14
No sound is produced from speakers.	• Connection with the input devices or connection of the speaker cables is faulty. • Device you want to play and set input source do not match. • Master volume is turned too low. • Mute mode is set. • Headphones are connected. • No digital signals are being input.	• Check the connections.	8 ~ 14
		• Select an appropriate input source.	22
		• Adjust the master volume to an appropriate level.	23
		• Cancel the mute mode.	23
		• Disconnect the headphones.	23
		• Select an input source for which the digital input setting has been made.	22
	• The connectors to which the digital inputs are assigned and the settable input modes do not match.	• Set the input mode.	22
Display is off.	• The Dimmer setting is set to "OFF".	• Set to something other than "OFF".	23
"DOLBY DIGITAL" indicator does not appear on display.	• DVD player's digital audio output setting is not proper.	• Check the DVD player's audio output setting. For details, read the DVD player's operating instructions.	–
		• In the case of HDMI video signal and digital audio signal input, output may be in PCM channel signals. In this case, check the audio setting of the player.	–

Symptom	Cause	Countermeasure	Page
Power switches off suddenly while you are using the AVR-390, the power indicator will flash in red at intervals of approximately 2 seconds.	• The protection circuit will be activated depending upon the temperature rise in the internal parts of the unit.	• Please switch off power at once, and re-apply the power after the body temperature has fallen sufficiently. • Please re-install AVR-390 in a place having good ventilation.	9 –
Power switches off suddenly while you are using the AVR-390, the power indicator will flash red at intervals of approximately 0.5 seconds.	• Use speakers having impedance less than that specified. • If speaker cable core wires touch each other or the core wires become disconnected from their terminals, the protection circuit will be activated in the event of core wires coming into contact with the AVR-390 rear panel.	• Please use speakers which have the specified impedance. • Unplug the power cord, then after twisting the core wires together tightly again, or effecting termination treatments etc, please reconnect once again.	9 9
Even applying power, the power display flashes red at intervals of approximately 0.5 seconds.	• The AVR-390 amplifier circuit has failed.	• Switch off the power and please contact the DENON service adviser.	–

[Remote Control Unit]

Symptom	Cause	Countermeasure	Page
Set does not work properly when remote control unit operated.	• Batteries are worn.	• Replace with new batteries.	3
	• You are operating outside of the specified range.	• Operate within the specified range.	3
	• Obstacle between main unit and remote control unit.	• Remove the obstacle.	3
	• The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment.	• Insert the batteries in the proper direction, following the polarity marks in the battery compartment.	3
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.).	• Move the set to a place in which the remote control sensor will not be exposed to strong light.	3

[Audio]

Symptom	Cause	Countermeasure	Page
No sound is produced from surround speakers.	• The surround mode is set to "STEREO".	• Set to a surround playback mode.	19
No sound is produced from subwoofer.	• Subwoofer's power not turned on. • The "Subwoofer" setting at "Speaker Configuration" is set to "N". • The subwoofer is not properly connected. • The subwoofer's volume is turned off.	• Turn on the subwoofer's power. • Set to "Y". • Check the connections. • Adjust the subwoofer's volume to an appropriate level.	– 17 8 –
DTS sound is not output.	• DVD player's audio output setting is not set to bitstream. • DVD player is not compatible with DTS sound playback.	• Set the DVD player. For details, refer to the DVD player's operating instructions. • Use a DTS-compatible player.	– –

[Video]

Symptom	Cause	Countermeasure	Page
No picture appears.	• The connections between the AVR-390 and monitor are faulty. • The monitor's input setting is wrong. • The player is connected using the component input connectors, the monitor is connected using the video (yellow) or S-Video output connectors.	• Check the connections. • Set properly. • In the case of a player which is connected to component terminals, if the monitor is not connected to the component terminals, the image will not appear. Check the connections.	10 ~ 13 – –
DVDs cannot be copied on a VCR.	–	• This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.	–

[HDMI]

Symptom	Cause	Countermeasure	Page
HDMI audio signals are not output from speakers.	–	• The audio signal input to the HDMI input connector cannot be played on the AVR-390. Input the audio signal to the digital audio input connector or analog audio input connector.	10
No picture appears with HDMI connections.	• The connections to the HDMI connectors are faulty. • HDMI connections is improper. • The HDMI format of the player and monitor do not match.	• Check the connections. • Check the HDMI connections. • Match the HDMI format of the player and monitor.	10 ~ 13 10 –
No sound is output from the monitor connected with HDMI connections.	• HDMI connections is improper.	• Check the HDMI connections.	10

[iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	• The input source assigned to control dock for iPod is not selected. • Cable is not properly connected. • Control dock for iPod's AC adapter is not connected to power outlet.	• Switch to the input source assigned at control dock for iPod. • Reconnect. • Plug the control dock for iPod's AC adapter into a power outlet.	16 12 –

Specifications

Audio section

• Power amplifier

Rated output:	Front: 100 W + 100 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) 125 W + 125 W (6 Ω/ohms, 1 kHz with 10 % T.H.D.) Center: 100 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) 125 W (6 Ω/ohms, 1 kHz with 10 % T.H.D.) Surround: 100 W + 100 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.) 125 W + 125 W (6 Ω/ohms, 1 kHz with 10 % T.H.D.)
Output connectors:	Front: 6 ~ 16 Ω/ohms Center, Surround: 6 ~ 16 Ω/ohms

• Analog

Input sensitivity / Input impedance:	280 mV / 50 kΩ/kohms
Frequency response:	20 Hz ~ 50 kHz — +1, -3 dB
S/N:	98 dB (IHF-A weighted, EXT. IN)

Video section

• Standard video connectors

Input / output level and impedance:	1 Vp-p, 75 Ω/ohms
Frequency response:	5 Hz ~ 10 MHz — +1, -3 dB

• S-Video connectors

Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms C (color) signal — 0.3 (PAL) / 0.286 (NTSC) Vp-p, 75 Ω/ohms
Frequency response:	5 Hz ~ 10 MHz — +1, -3 dB

• Color component video connectors

Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms P _B / C _B signal — 0.7 Vp-p, 75 Ω/ohms P _R / C _R signal — 0.7 Vp-p, 75 Ω/ohms
-------------------------------------	---

Frequency response:	5 Hz ~30 MHz — +0, -3 dB
---------------------	--------------------------

Tuner section

	[FM]	[AM]
	(note: μV at 75 Ω/ohms, 0 dBf = 1 x 10 ⁻¹⁵ W)	
Receiving Range:	87.5 MHz ~ 108.0 MHz (87.5 MHz ~ 107.9 MHz)	522 kHz ~ 1611 kHz (520 kHz ~ 1710 kHz)
Usable Sensitivity:	1.2 μV (12.8 dBf)	18 μV
50 dB Quieting Sensitivity:	MONO 2.8 μV (20.2 dBf) STEREO 48.7 μV (45.0 dBf)	
S/N (IHF-A):	MONO 70 dB STEREO 67 dB	
Total harmonic Distortion (at 1 kHz):	MONO 0.7 % STEREO 1.0 %	

General

Power supply:	AC 230 V, 50 Hz
Power consumption:	300 W 0.8 W (Standby)
Maximum external dimensions:	440 (W) x 141 (H) x 377 (D) mm
Weight:	8.9 kg

Remote control unit (RC-1115)

Batteries:	R03/AAA Type (two batteries)
Maximum external dimensions:	50 (W) x 211 (H) x 22 (D) mm
Weight:	110 g (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.

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